

**ASSESSING HIGH-SPEED INTERNET ACCESS  
IN THE STATE OF IOWA: FIFTH ASSESSMENT**

A Report of the  
Iowa Utilities Board

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May 2006

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## 1.0 INTRODUCTION

During the past decade, the Internet has become an integral part of many Iowans' daily lives. It is used for banking, shopping, research, keeping in touch with family and friends, as well as many other uses. Since the Internet is used for so many different applications, it is important that Iowans have access to high-speed Internet rather than simple dial-up service.

In addition, the availability of high-speed Internet expands competitive choice for voice telecom consumers through a technology known as Voice over Internet Protocol (VoIP). VoIP allows you to make telephone calls using a computer network, over a data network like the Internet. VoIP converts the voice signal from your telephone into a digital signal that travels over the Internet then converts it back at the other end so you can speak to anyone with a regular phone number.<sup>1</sup> VoIP requires a high-speed Internet connection and commonly uses cable-modem or high-speed DSL services. Several traditional telephone companies, such as Qwest and AT&T; as well as nascent companies, such as Vonage and Skype, are using this technology to reach consumers in Iowa; however, its growth is dependent on the availability of high-speed Internet access.

Today high-speed Internet service is available to many Iowans, and they have a choice when it comes to their Internet service. For these Iowans, they can subscribe to a high-speed Internet service with speeds of their choosing for a price or they may choose to subscribe to a dial-up service without additional costs depending on their needs. But for others, high-speed Internet service is not available, and they are limited to dial-up service.

The Iowa Utilities Board (IUB) issued an order initiating inquiry and granting confidentiality in Docket No. NOI-06-2. This docket opened the Fifth Assessment of high-speed Internet access in Iowa and granted confidential treatment of survey responses pursuant to Iowa Code §§ 22.7(3) and 22.7(6). The Fifth Assessment, like previous assessments, attempts to gauge the availability of high-speed Internet access to both rural and non-rural Iowans. The IUB and the Iowa Department of Economic Development submitted the first assessment to the Legislative Oversight Committee of the Legislative Council in October 2000. The report assessed the statewide availability of high-speed Internet access, and recommendations were made that had the potential to ensure access to high-speed Internet service in rural Iowa. The report, "Assessing High-Speed Internet Access in the State of Iowa" (First Assessment), was in compliance with Senate File 2433. In response to recommendations contained in the First Assessment, the IUB conducted a Second, Third, and Fourth Assessment in September 2001, January 2003, and July 2004, respectively.

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<sup>1</sup> <http://www.fcc.gov/voip/>

The state has taken steps to encourage the deployment of high-speed Internet access. In March 2005, Governor Vilsak signed H.F. 277 which mandates that a telephone utility subject to rate regulation (Frontier, Iowa Telecommunication Services Inc. dba Iowa Telecom, and Qwest) that elects to increase single line flat-rated residential or business service rates shall offer digital subscriber line broadband service in all of the telephone utility's exchanges in the state within eighteen months of the first rate increase. Iowa Telecom and Frontier already have high-speed Internet services available in all of their telephone exchanges, but that does not mean that every community (incorporated or unincorporated) will have high-speed Internet access. There are many exchanges that serve more than one community. As an example, the community of Carl, Iowa is primarily served by Frontier's Corning, Iowa exchange, but the remote node site serving Carl is not equipped for high-speed Internet service. Qwest increased its rates pursuant to H.F. 277 in August 2005; therefore, it is required to have high-speed Internet services rolled out to all its telephone exchanges within eighteen months of that date or by the end of February 2007. H.F. 277 does allow the Board to extend the eighteen-month deadline up to nine calendar months for good cause.

The IUB has also encouraged the deployment of high-speed Internet access by working with incumbent and competitive telephone companies. The Board approved Iowa Telecom's Network Improvement Plan that included deployment of high-speed Internet services to all of their exchanges. The Board also approved the tariff filed by MCC Telephony of Iowa (Mediacom) and issued a Certificate of Public Convenience and Necessity allowing them to offer local telephone service via their cable network. To provide telephone service over their cable network, Mediacom had to expand and upgrade their network which allows more Iowans access to high-speed Internet service.

The Board continues to evaluate the level of progress in the deployment of high-speed Internet access through this Fifth Assessment including information related to Internet speeds available to consumers, demand, and pricing of high-speed Internet services. Comparison of this assessment with the earlier efforts is critical if a clear perspective on the developing availability of high-speed Internet access to all residents of the State of Iowa is desired. In order to measure availability, consistency between the assessments is essential. In the Fifth Assessment, the survey, terms, and staff analysis employed are very similar to the methods used in the prior assessments. This report is also consistent with the earlier assessments when it refers to the availability of high-speed Internet access in a community, in that it does not mean access is available to all customers in that community, but is limited by technology. Due to factors such as distance, line quality, and limited amounts of investment, some customers within a community will not have access to high-speed Internet while others within the same community will have access.

This report continues to use the same standard for “high-speed” technologies as the previous assessments. High-speed technology is defined as technology capable of providing access services with over 200 kilobits per second (Kbps), this being consistent with the Federal Communication Commission’s (FCC) definition of high-speed Internet access, although actual speeds available today exceed that speed. The FCC, in its Section 706 report to Congress, and this Board, acknowledges that 200 Kbps is merely the “first generation” of this technology.<sup>2</sup> The focus of this report is to determine where at least this “first generation” technology is available in Iowa. This report, like previous assessments, avoids the use of the term “broadband,” because it has come to include a wide range of services and facilities that extend beyond the definition of high-speed technologies used in this report.

It is anticipated that the next High-Speed Internet Assessment will be combined with the Third Statewide Telecommunications Competition Survey for Retail Local Voice Services in Iowa. The combined survey is expected to be conducted in or around July 2007.

The IUB sincerely appreciates the cooperation and survey responses from the participating local exchange carriers, cable providers, and wireless/satellite service providers.

Section 2.0 of this report contains the conclusions established from the assessment of the January 2006 survey data. Section 3.0 describes the survey design and the methodology used to compile the data. Section 4.0 provides a detailed analysis of the data collected from the January 2006 survey. Section 5.0 provides a comparison of data from the FCC report, “High-Speed Services for Internet Access: Status as of June 30, 2005” that was issued April 3, 2006. Section 6.0 provides a summary of the report and its findings.

## **2.0 CONCLUSIONS AND COMPARISONS**

In January 2006, the IUB completed a point-in-time, community-by-community and zip code-by-zip code, statewide assessment of current, and near-term, high-speed Internet access in Iowa. The IUB assessed telecommunications companies, cable providers, wireless providers, and satellite companies most likely to offer high-speed Internet access in Iowa. The telecommunications companies included all local exchange carriers (LECs), which consist of incumbent local exchange carriers (ILECs) and competitive local exchange carriers (CLECs).

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<sup>2</sup> Federal Communications Commission, “Availability of Advanced Telecommunications Capability in the United States FCC 04-208, GN Docket No. 04-54,” Fourth Report to Congress, September 9, 2004.

The assessment responses captured data for 1,231 Iowa communities.<sup>3</sup> Of the 1,231 Iowa communities represented in the assessment, 963 of the communities are identified as rural. Rural communities are defined as those Iowa communities with less than 2,500 inhabitants, and are not served by an urban exchange.<sup>4</sup> The assessment identified the remaining 268 communities as non-rural.

The following conclusions were reached based on industry responses to the IUB staff survey. The comparisons are based on information obtained from the first four assessments and the results of the January 2006 assessment.

The report concludes:

**The deployment rates of high-speed technologies in rural and non-rural Iowa communities continue to increase.**

- In Iowa, 1,144 out of 1,231 Iowa communities, or 92.9 percent, currently have access to one or more types of high-speed Internet technology.
- 918 out of 963 rural communities, or 95.3 percent, currently have high-speed Internet access.
- 226 out of 268 non-rural communities, or 84.3 percent, currently have high-speed Internet access.

*Comparison with Earlier Assessment Results*

- ⇒ In 2004, 679 out of 935 rural communities, or 72.6 percent, had high-speed Internet access; in 2003, 634 out of 935 rural communities, or 67.8 percent, had access; and, in 2000, 246 out of 879 rural communities, or 28.0 percent, had high-speed Internet access.
- ⇒ In 2004, 199 out of 273 non-rural communities, or 72.9 percent, had high-speed Internet access; in 2003, 185 out of 274 non-rural communities, or 67.5 percent, had access; and, in 2000, 111 out of 266 non-rural communities, or 41.7 percent, had high-speed Internet access.

**Rural communities are achieving a higher rate of deployment of high-speed Internet technologies than non-rural communities.**

- The number of rural communities with high-speed Internet access increased from 679 in July 2004 to 918 in January 2006, or by 35.2 percent.

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<sup>3</sup> The list of Iowa communities included all known rural, non-rural, and unincorporated places as of January 2006.

<sup>4</sup> The definition of “rural” in this report is a variation of the Census Bureau’s definition of rural. The Census Bureau’s definition includes all communities with fewer than 2,500 inhabitants as well as areas outside of communities including farmland, ranch land, and wilderness. The Census Bureau’s definition of rural also includes suburban developments that are close to an urban area. Inclusion of these suburban communities may provide misleading results. As a result, this report only defines communities as rural if the community population is less than 2,500 inhabitants and is not served by an urban exchange. Population data was acquired from the 2000 U.S. Census.

- The number of non-rural communities with high-speed Internet access increased from 199 in July 2004 to 226 in January 2006, or by 13.6 percent.

Comparison with Earlier Assessment Results

- ⇒ From September 2001 to July 2004, the number of rural communities with access to high-speed Internet increased from 431 to 679, or by 57.5 percent.
- ⇒ From September 2001 to July 2004, the number of non-rural communities with access to high-speed Internet increased from 167 to 199, or by 19.2 percent.

**The industry exceeded the deployment projections made in the Fourth Assessment.**

- As of January 2006, 918 out of the 963 rural communities, or 95.3 percent, and 226 out of the 268 non-rural communities, or 84.3 percent, had access to high-speed Internet.
- The industry projected that 789 out of the 935 rural communities, or 84.4 percent, and 203 out of 273 non-rural communities, or 74.4 percent, would have high-speed Internet access by July 2005.

**Deployment projections for the next 12 months are significantly less aggressive than deployment projections made in the Fourth Assessment.**

- The industry is projecting that just one additional rural community will have access to high-speed Internet services by January 2007.
- For non-rural areas, the industry is projecting an increase from 226 communities in January 2006 to 229 communities in January 2007.
- Overall, the industry is projecting the availability of high-speed Internet will increase by four communities from January 2006 to January 2007.

Comparison with Earlier Assessment Results

- ⇒ In July 2004, the number of communities with access to high-speed Internet was projected to increase from 679 to 789, or 110 communities, by July 2005.
- ⇒ The industry projected an additional four non-rural communities to have high-speed Internet access from July 2004 to July 2005.

**xDSL and wireless/satellite technologies are available in the greatest number of Iowa communities.**

- xDSL is available in 1,046 out of 1,231 Iowa communities, or 85.0 percent.
- Wireless/satellite high-speed Internet service is available in 641 out of 1,231 Iowa communities, or 52.1 percent.
- High-speed cable-modem service is available in 389 out of 1,231 Iowa communities, or 31.6 percent.

**Overall, deployment of xDSL service is increasing more rapidly in rural communities than in non-rural communities.**

- The number of rural communities with access to xDSL increased from 212 in September 2001 to 857 in January 2006. This is an increase of 645 communities, or 304 percent.
- The number of non-rural communities with access to xDSL increased from 72 in September 2001 to 189 in January 2006. This is an increase of 117 communities, or 163 percent.

**Access to cable-modem technology continues to be more prevalent in non-rural communities.**

- 232 out of 963 rural communities, or 24.1 percent, had access to high-speed cable-modem services.
- 157 out of 268 non-rural communities, or 58.6 percent, had access to high-speed cable-modem services.

*Comparison with Earlier Assessment Results*

- ⇒ In July 2004, 196 out of 935 rural communities, or 20.9 percent, had access to high-speed cable-modem services.
- ⇒ In July 2004, 152 out of 273 non-rural communities, or 55.7 percent, had access to high-speed cable-modem services.

**Access to wireless/satellite technologies is greater in non-rural communities than in rural communities.**

- 497 out of 963 rural communities, or 51.6 percent, had access to high-speed wireless/satellite technologies as of January 2006; and that number is projected to increase to 499 rural communities, or 51.8 percent, by January 2007.
- Access to wireless/satellite technologies in non-rural communities is expected to remain the same from January 2006 to January 2007 at 144 out of 268 communities, or 53.7 percent.

**Competition in the provisioning of high-speed Internet services is increasing in both rural and non-rural communities.**

- As of January 2006, 560 out of 963 rural communities, or 58.2 percent, had two or more providers of high-speed Internet services.
- 173 of the 268 non-rural communities, or 64.6 percent, had two or more providers of high-speed Internet as of January 2006.

*Comparison with Earlier Assessment Results*

- ⇒ In September 2001, 63 out of 917 rural communities, or 6.9 percent, had two or more providers of high-speed Internet.
- ⇒ In September 2001, 70 out of 274 non-rural communities, or 25.5 percent, had two or more providers of high-speed Internet.

**Non-rural customers are using higher-speeds for Internet service more than rural customers.**

- 71 percent of the rural customers subscribe to Internet services with download speeds of 200-512 Kbps.
- Nearly 50 percent of the non-rural customers subscribe to Internet services with download speeds of 1-4.99 megabits per second (Mbps). One Mbps is equivalent to 1000 Kbps.

### **3.0 METHODOLOGY**

#### **Survey Design**

For the Fifth Assessment, survey instruments were designed to collect point-in-time information that could be used to assess the availability of high-speed Internet access on a community-by-community basis. The survey instrument was designed to allow LECs, cable operators, and wireless/satellite providers to use one form. A copy of the survey instrument used in the Fifth Assessment is included as Attachment A to this report. The surveys were sent to providers on January 25, 2006 and were to be returned by February 17, 2006.

The high-speed Internet technology categories this report and previous reports use are: xDSL, cable-modem, and wireless/satellite. xDSL includes all types of digital subscriber line services where the high-speed signal can be carried over existing copper telephone wires without disrupting that part of the signal for traditional phone calls. Included in the xDSL category are both symmetric digital subscriber line (SDSL) and asymmetric digital subscriber line (ADSL). SDSL uploads and downloads data at the same speeds whereas ADSL's maximum transfer rates for uploading and downloading data are different. Cable-modem provides high-speed Internet services via cable run for regular television programming. Wireless high-speed Internet uses longer-range directional equipment and antennas to link remote or sparsely populated areas. Satellite uses radio waves instead of wires to deliver access. Wireless and satellite technologies have been combined into one category in the past IUB Assessments to protect the anonymity of the very small number of satellite providers who responded to the survey. To provide comparability to previous surveys, this pairing has continued even though there were significantly more satellite providers responding to the Fifth Assessment survey.

The survey requested information that could be used to assess each community's or each zip code's current and near-term access to high-speed Internet technologies. In past assessments, zip code information was not requested, but it was included in the Fifth Assessment to allow comparisons to the FCC's data. Also, the survey gathered information pertaining to the upstream and downstream speeds attainable through applicable technologies. Specifically, the survey requested that the number of customers be reported by various speed categories rather than in total as done in the past assessments. The survey also collected data on the level of customer inquiries and demand for the relevant

technologies. The levels were defined as the company's customer-based rate of inquiry and demand: low (3 percent or less), medium (between 4 percent and 19 percent), or high (20 percent or greater). Respondents were also asked to identify communities in which they planned to deploy high-speed services within the next 12 months.

### **Survey Distribution**

Like the previous assessments, the Fifth Assessment strives for a comprehensive depiction of the high-speed Internet access across the state. The Fifth Assessment includes all ILEC, CLEC, wireless, satellite, and cable companies providing service in the state. Surveys were sent to all certified ILECs and CLECs serving any access lines in Iowa during the year. The IUB does not certify nor retain records on cable and wireless/satellite companies providing service in the state. Distribution lists were compiled from information provided by various cable and wireless/satellite associations and industry contacts. An electronic version of the survey used in the Fifth Assessment was also available on the IUB Web site.

## **4.0 FIFTH ASSESSMENT FINDINGS, CONCLUSIONS, AND COMPARISONS**

In January 2006, the IUB completed a point-in-time, community-by-community, statewide assessment of current and near-term high-speed Internet access in Iowa. The following tables are a compilation of the Fifth Assessment data and form the basis for all findings and conclusions contained in this report. This section contains seven subsections, each of which analyzes a particular element of the assessment data. These subsections include: response rate, statewide availability of high-speed services, availability of high-speed services by technology, concentration of and competition for high-speed services, the level of demand for high-speed services, Internet speeds available, and pricing of Internet services.

## Response Rate

The following table summarizes the assessment response rate:

<b>Table I</b>					
<b>Fifth Assessment Response Rate<sup>5</sup></b>					
	All Providers	ILECs	CLECs	Cable Providers	Wireless/Satellite Providers
Number of Providers Assessed	313	159	74	31	49
Overall Number of Assessments Returned	303	159	71	29	44
<b>Overall Assessment Response Rate</b>	<b>96.8%</b>	<b>100.0%</b>	<b>95.9%</b>	<b>93.6%</b>	<b>89.8%</b>
Number of Providers Assessed Electronically	301	159	71	27	44
Number of Assessments Returned Electronically	275	140	67	26	42
<b>Electronic Response Rate</b>	<b>90.8%</b>	<b>88.1%</b>	<b>94.4%</b>	<b>89.7%</b>	<b>95.5%</b>

In accordance with Governor Vilsack’s “E-Government Initiative,” a concerted effort was made to survey the majority of the providers electronically. The IUB distributed 301 out of 313 surveys, or 96.2 percent, through electronic mail. This is approximately the same percentage as in the Fourth Assessment. Of those responding to the Fifth Assessment, 275 out of 303, or 90.8 percent, filed their information electronically.

The overall response rate for the Fifth Assessment was approximately ten percent higher than that of the Fourth Assessment. In total, 303 out of 313 providers responded to the Fifth Assessment for a response rate of 96.8 percent. This compares to 268 out of 311 providers, or 86.2 percent, responding to the Fourth Assessment.

### Statewide Availability of High-Speed Services

- √ The deployment rates of high-speed technologies in rural and non-rural Iowa communities continue to increase;
- √ Rural communities are achieving a higher rate of deployment of high-speed Internet technologies than non-rural communities;
- √ The industry exceeded the deployment projections made in the Fourth Assessment; and
- √ Deployment projections for the next 12 months are significantly less aggressive than the deployment projections made in the Fourth Assessment.

### Discussion of Conclusions

Attachment B of this report provides maps of the state of Iowa that show the areas where high-speed Internet technologies are available for each type of technology and where they are projected to be available by January 2007.

<sup>5</sup> Communities that were not represented in the providers’ responses were deemed as communities not having access to any high-speed Internet technologies.

Attachment C of this report provides a community-by-community list of the same information. As mentioned earlier, the assessment response captured data for 1,231 Iowa communities, 963 of the communities are identified as rural and the remaining 268 communities as non-rural.

**Fifth Assessment Conclusion:**

*The deployment rates of high-speed technologies in rural and non-rural Iowa communities continue to increase.*

Of the 1,231 communities included in the assessment responses, 1,144 Iowa communities, or 92.9 percent, have access to at least one type of high-speed Internet technology. Of the 1,144 communities having access, 918 are rural and 226 are non-rural. Based on current deployment schedules, an additional four Iowa communities will have access to at least one type of high-speed Internet technology by January 2007. The information is summarized in the following table:

<b>Table II Iowa Communities with Access to High-Speed Technologies as of January 2006</b>				
	Rural (963 Communities)		Non-Rural (268 Communities)	
	Access as of January 2006	Projected Access by January 2007	Access as of January 2006	Projected Access by January 2007
Number of Iowa Communities with Access to High-Speed Technologies	918	919	226	229
% of Iowa Communities Surveyed with Access to High-Speed Technologies	95.3%	95.4%	84.3%	85.4%

If industry deployment schedules are realized by January 2007, 919 out of 963 rural communities, or 95.4 percent, and 229 out of 268 non-rural communities, or 85.4 percent, will have access to at least one type of high-speed Internet technology. In total, 1,148 out of 1,231 communities, or 93.3 percent, will have access to at least one type of high-speed Internet technology by January 2007.

**Fifth Assessment Conclusion:**

*Rural communities are achieving a slightly higher rate of deployment of high-speed Internet technologies than non-rural communities.*

As illustrated below in Table III, rural communities are experiencing a higher rate of deployment of high-speed Internet technologies than non-rural communities. Between July 2004 and January 2006, the number of rural communities with access to high-speed Internet technologies increased from 679 to 918, or an increase 35.2 percent. During the same period, the number of non-rural communities with access to high-speed Internet technologies increased from 199 to 226, or an increase of 13.6 percent. The increase in rural communities with access to high-speed Internet technologies was driven primarily by Iowa Telecom

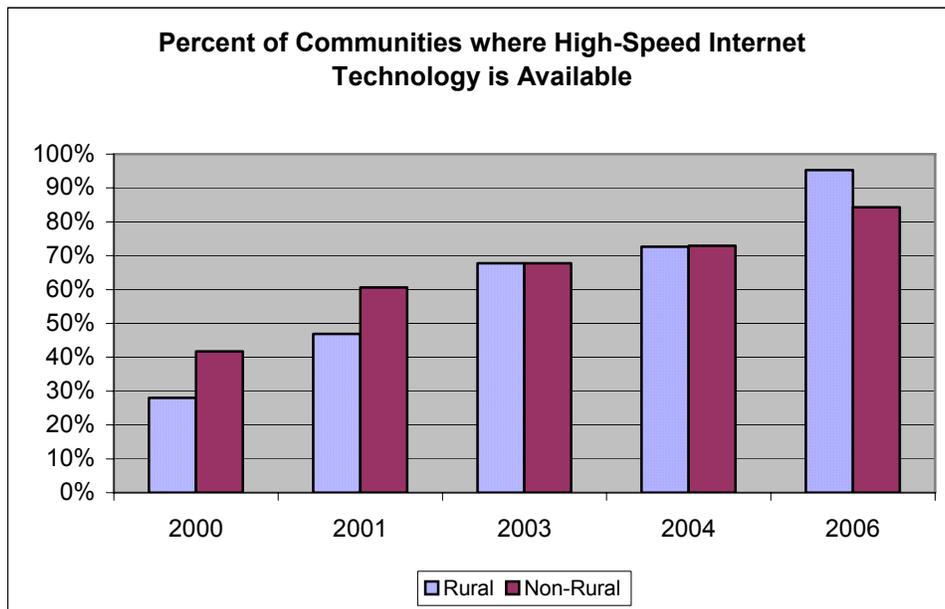
striving to have xDSL deployed to 100 percent of its exchanges by mid-year 2005.

Table III Comparison of Iowa Communities with Access to High-Speed Technologies from July 2004 to January 2006				
	Rural*		Non-Rural**	
	Access as of July 2004	Access as of January 2006	Access as of July 2004	Access as of January 2006
Number of Iowa Communities with Access to High-Speed Technologies	679	918	199	226
% of Iowa Communities Surveyed with Access to High-Speed Technologies	72.6%	95.3%	72.9%	84.3%

\*Based on 935 identified rural communities in July 2004 and 963 in January 2006.

\*\*Based on 273 identified non-rural communities in July 2004 and 268 in January 2006.

The following graph shows the percent of rural and non-rural communities that have access to high-speed Internet technologies based on the five IUB Assessments



**Fifth Assessment Conclusion:**

*The industry exceeded the deployment projections made in the Fourth Assessment.*

The results of the Fifth Assessment illustrate that the industry exceeded the near-term deployment projections stated in the Fourth Assessment. Table IV compares the deployment projections cited by the industry in the Fourth

Assessment and the “realized” deployment of high-speed Internet services to Iowa communities as of January 2006.

<b>Table IV Comparison of Projected Access to High-Speed Internet Services by July 2005 and Realized Access to High-Speed Internet Technologies as of January 2006</b>				
	Rural*		Non-Rural**	
	Projected Access by July 2005	Realized Access as of January 2006	Projected Access by July 2005	Realized Access as of January 2006
Number of Iowa Communities with Access to High-Speed Technologies	789	918	203	226
% of Iowa Communities Surveyed with Access to High-Speed Technologies	84.4%	95.3%	74.4%	84.3%

\*Based on 935 identified rural communities projected in July 2005 and 963 in January 2006.

\*\*Based on 273 identified non-rural communities projected in July 2005 and 268 in January 2006.

In July 2004, the industry projected that 789 rural and 203 non-rural communities would have access to high-speed Internet services by July 2005. The January 2006 Assessment indicates that those projections were exceeded, as 918 rural and 226 non-rural communities currently have access to high-speed Internet services.

**Fifth Assessment Conclusion:**

*Deployment projections for the next 12 months are significantly less aggressive than deployment projections made in the Fourth Assessment.*

In each of the previous assessments, except the Fourth Assessment, the projected deployment rates had been less aggressive as the availability of high-speed Internet increased. However, in the Fourth Assessment, near-term deployment rates were significantly more aggressive than the first three assessments. That change in the deployment trend was primarily due to Iowa Telecom striving to have xDSL deployed to 100 percent of its exchanges by mid-year 2005. As can be seen in the deployment projections in the Fifth Assessment, the previous trend of having less aggressive deployment levels has resurfaced. Most of the communities that still need high-speed Internet access are smaller communities that have less demand and for economic or technological reasons, providers have not yet deployed high-speed Internet access to them.

As the data in Table V shows, the industry projected that 789 rural communities and 203 non-rural communities would have high-speed Internet access by July 2005. That was an overall increase in the number of both rural and non-rural communities with high-speed Internet access of 12.9 percent. In January 2006, the industry projected that 919 rural communities and 229 non-rural communities would have high-speed Internet access within 12 months. This would be a total increase of four communities, or 0.4 percent, over the current number of rural and non-rural communities with access to high-speed Internet services.

<b>Table V Comparison of July 2005 Deployment Projections and January 2007 Deployment Projections of High-Speed Internet Technologies</b>				
	Rural*		Non-Rural**	
	Projected Access by July 2005	Projected Access by January 2007	Projected Access by July 2005	Projected Access by January 2007
Number of Iowa Communities with Access to High-Speed Technologies	789	919	203	229
% of Iowa Communities Surveyed with Access to High-Speed Technologies	84.4%	95.4%	74.4%	85.4%

\*Based on 935 identified rural communities projected in July 2005 and 963 projected in January 2007.

\*\*Based on 273 identified non-rural communities projected in July 2005 and 268 in projected January 2007.

### **Availability of High-Speed Services by Technology**

#### **All Technology:**

√ *xDSL and wireless/satellite technologies are available in the greatest number of Iowa communities.*

#### **xDSL:**

√ *Overall, deployment of xDSL technology is increasing more rapidly in rural communities than non-rural communities.*

#### **Cable-Modem:**

√ *Access to cable-modem technology continues to be more prevalent in non-rural communities.*

#### **Wireless/Satellite**

- √ *Access to wireless/satellite technologies is greater in non-rural communities than in rural communities; and,*
- √ *Access to wireless/satellite technologies is expected to increase very little in rural communities and not at all in non-rural communities.*

#### **Fifth Assessment Conclusion:**

*xDSL and wireless/satellite technologies are available in the greatest number of Iowa communities.*

As shown in Table VI, one or more types of high-speed Internet technology are currently available in 1,144 out of 1,231 communities in Iowa, or 92.9 percent. xDSL is available in 1,046 communities in Iowa, or 85.0 percent. Wireless/satellite high-speed Internet technologies are available in 641 Iowa communities, or 52.1 percent.

The industry projects that xDSL will have the most growth in the number of communities with high-speed Internet access. It projects an increase of 21

communities, from 1,046 communities in January 2006 to 1,067 communities January 2007.

<b>Table VI</b>				
<b>Iowa Communities with Access to Different High-Speed Technologies as of January 2006</b>				
	Number of Iowa Communities Surveyed with Access to High-Speed Technologies		% of Iowa Communities Surveyed with Access to High-Speed Technologies	
	Access as of January 2006	Projected Access by January 2007	Access as of January 2006	Projected Access by January 2007
<b>Iowa Communities with Access to**:</b>				
One or More Types of High-Speed Internet Technology	1,144	1,148	92.9%	93.3%
xDSL Technology	1,046	1,067	85.0%	86.7%
Wireless/Satellite Technologies	641	643	52.1%	52.2%
Cable-Modem Technology	389	389	31.6%	31.6%

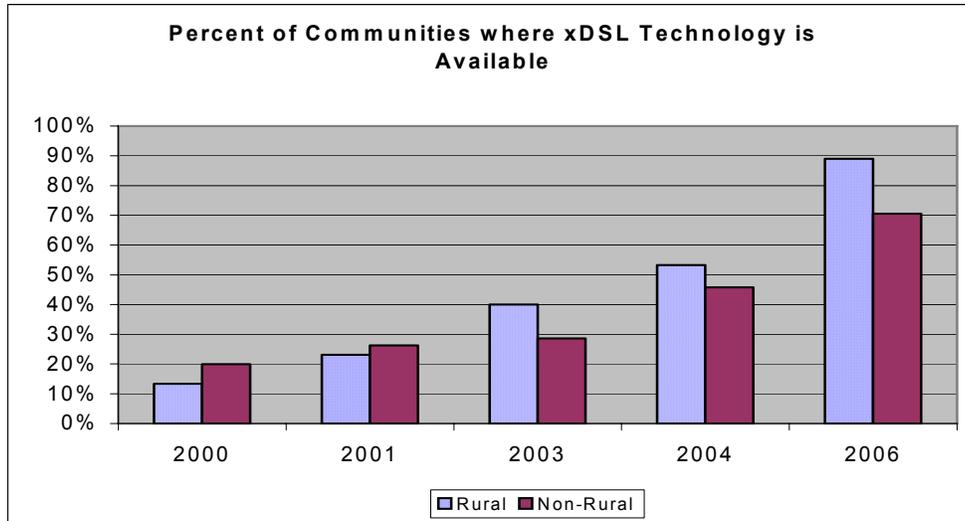
\*\* Based on the 1,231 known incorporated and unincorporated Iowa communities.

**Fifth Assessment Conclusion:**

*Overall, deployment of xDSL technology is increasing more rapidly in rural communities than in non-rural communities.*

High-speed xDSL Internet access in rural communities increased from 23.1 percent in September 2001; to 40.0 percent in January 2003; to 53.3 percent in July 2004; and finally to 85.0 percent in January 2006. Between September 2001 and January 2006 the number of rural Iowa communities with access to high-speed xDSL technology has increased from 212 to 857, a growth of 304 percent. Between September 2001 and January 2006, the number of non-rural Iowa communities with access to high-speed xDSL technology has increased from 72 to 189, a growth of 163 percent.

The graph below shows the progression in the percentage of rural and non-rural communities with access to xDSL from the first survey in 2000 to the 2006 survey.



As shown in Table VII, by January 2007, the number of rural communities with access to high-speed xDSL technology is projected to increase from 857 to 874 communities, or 2.0 percent. The number of non-rural communities is projected to increase from 189 to 193, or 2.1 percent. The increase in the number of communities projected to have access to xDSL within twelve months is due, in part, to requirements of H.F. 277.

	Rural (963 Communities)		Non-Rural (268 Communities)	
	Access as of January 2006	Projected Access by January 2007	Access as of January 2006	Projected Access by January 2007
Number of Iowa Communities with Access to xDSL Technology	857	874	189	193
% of Iowa Communities Surveyed with Access to xDSL Technology	89.0%	90.8%	70.5%	73.4%

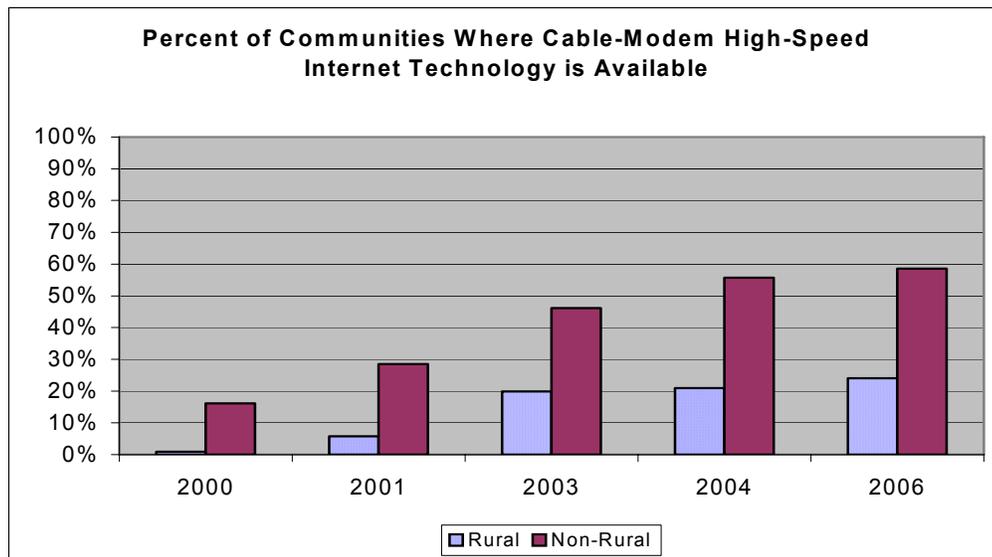
**Fifth Assessment Conclusion:**

*Access to cable-modem technology continues to be more prevalent in non-rural communities.*

As shown in Table VIII, 157 out of 268 non-rural Iowa communities, or 58.6 percent, had access to high-speed cable-modem technology as of January 2006. At the same time, 232 out of 963 rural Iowa communities, or 24.1 percent, had access to high-speed cable-modem technology. The industry has not projected an increase in the number of rural or non-rural communities that will have high-speed Internet access through the cable-modem technology by January 2007.

<b>Table VIII</b>				
<b>Iowa Communities with Access to High-Speed Cable-Modem Technology as of January 2006 and Communities Expected to Have Access by January 2007</b>				
	Rural (963 Communities)		Non-Rural (268 Communities)	
	Access as of January 2006	Projected Access by January 2007	Access as of January 2006	Projected Access by January 2007
Number of Iowa Communities with Access to High-Speed Cable-Modem Technology	232	232	157	157
% of Iowa Communities Surveyed with Access to High-Speed Cable-Modem Technology	24.1%	24.1%	58.6%	58.6%

Below, the graph shows the trend in the percentage of communities where cable-modem high-speed Internet service is available. The data is from the five IUB Assessments.

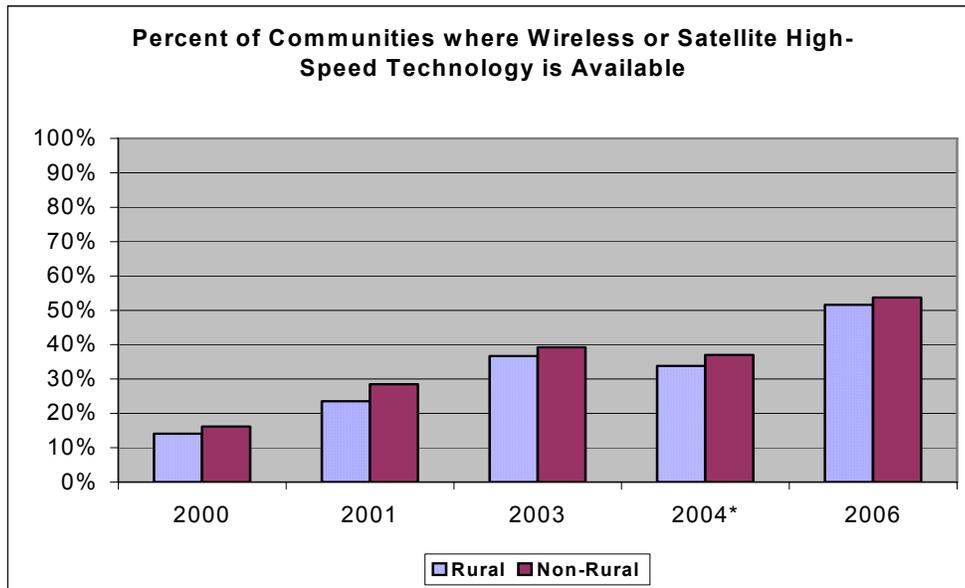


**Fifth Assessment Conclusion:**

*Access to wireless/satellite technologies is greater in non-rural communities than in rural communities.*

As shown in Table IX and the graph below, access to high-speed wireless or satellite technologies increased significantly for both rural and non-rural communities from September 2001 to January 2006, but the level of access is slightly greater in non-rural communities. The number of non-rural communities with access to wireless or satellite technologies increased from 78 out of 274 communities, or 28.5 percent, in September 2001 to 144 out of 268 communities, or 53.7 percent, in January 2006. The number of rural communities with access to high-speed wireless or satellite technologies increased from 216 out of 917

communities, or 23.6 percent, in September 2001 to 497 out of 963 communities, or 51.6 percent, in January 2006.



\*The percentage of communities with access to wireless or satellite high-speed Internet service dropped in 2004 because fewer providers responded to the 2004 IUB survey than the survey done in 2003.

While access to wireless/satellite technologies is slightly higher in non-rural communities, the rural communities have experienced a significantly higher rate of growth since 2001. The number of rural communities with high-speed wireless/satellite Internet technologies has increased by 130.1 percent. During the same time, the number of non-rural communities with wireless/satellite high-speed Internet technologies has increased by 84.6 percent.

The availability of high-speed Internet access through wireless and satellite technologies in Iowa has increased overall from 417 communities in July 2004 to 641 communities, or by 53.7 percent since the Fourth Assessment. The increased availability is due in part to the introduction of additional satellite services in Iowa. Several rural electric cooperatives and rural based incumbent telephone providers have begun offering satellite Internet service, which allows more customers in rural areas to have access to high-speed Internet.

<b>Table IX Comparison of Iowa Communities with Access to High-Speed <u>Wireless/Satellite</u> Technologies from September 2001 to January 2006</b>				
	Rural*		Non-Rural**	
	Access as of September 2001	Access as of January 2006	Access as of September 2001	Access as of January 2006
Number of Iowa Communities with Access to High-Speed Wireless/Satellite Technologies	216	497	78	144
% of Iowa Communities Surveyed with Access to High-Speed Wireless/Satellite Technologies	23.6%	51.6%	28.5%	53.7%

\*Based on 917 identified rural communities in September 2001 and 963 in January 2006.

\*\*Based on 274 identified non-rural communities in September 2001 and 268 in January 2006.

**Fifth Assessment Conclusion:**

*Access to high-speed wireless/satellite technologies is expected to increase very little in rural communities and not at all in non-rural communities.*

According to the data collected in the Fifth Assessment, the high-speed wireless/satellite technologies are projected to have little or no growth from January 2006 to January 2007, as shown in Table X. The wireless/satellite industry is expected to add high-speed Internet service to only two rural communities, with no additional communities expected to gain access to high-speed wireless/satellite technologies in non-rural areas.

<b>Table X Iowa Communities with Access to High-Speed <u>Wireless/Satellite</u> Technologies as of January 2006 and Communities Expected to Have Access by January 2007</b>				
	Rural (963 Communities)		Non-Rural (268 Communities)	
	Access as of January 2006	Projected Access by January 2007	Access as of January 2006	Projected Access by January 2007
Number of Iowa Communities with Access to High-Speed Wireless/Satellite Technologies	497	499	144	144
% of Iowa Communities Surveyed with Access to High-Speed Wireless/Satellite Technologies	51.6%	51.8%	53.7%	53.7%

## Concentration of and Competition for High-Speed Services

### **Fifth Assessment Conclusion:**

*Competition in the provisioning of high-speed Internet services is increasing in both rural and non-rural communities.*

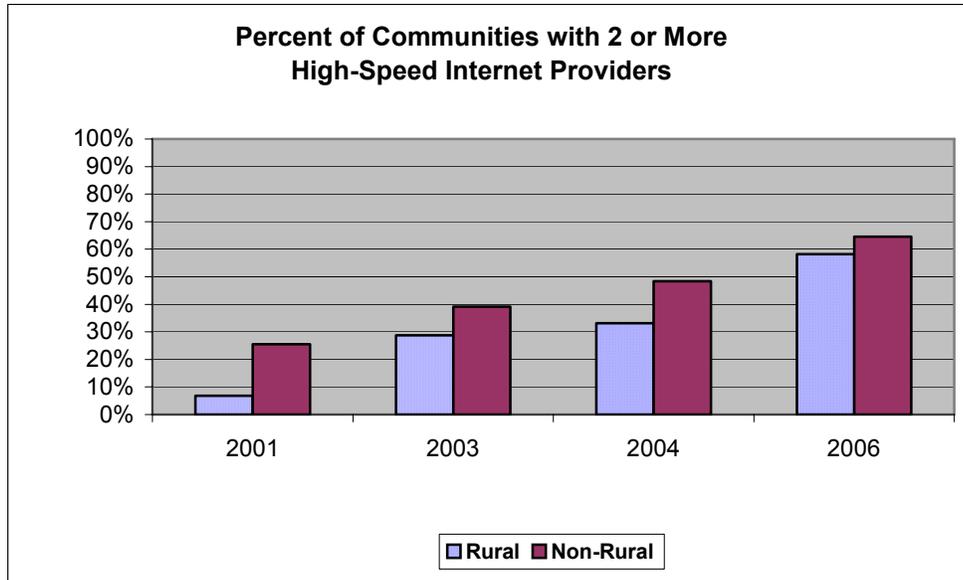
Table XI shows the number of competitors in Iowa communities providing high-speed Internet services has increased from July 2004 to January 2006. Even more striking is the increase from September 2001.

<b>Number of Providers</b>	Rural*		Non-Rural**	
	Communities as of July 2004	Communities as of January 2006	Communities as of July 2004	Communities as of January 2006
0	256	45	74	42
1	369	358	67	53
2	218	253	53	42
3	72	183	36	39
4	18	84	20	24
5 or more	2	40	23	68

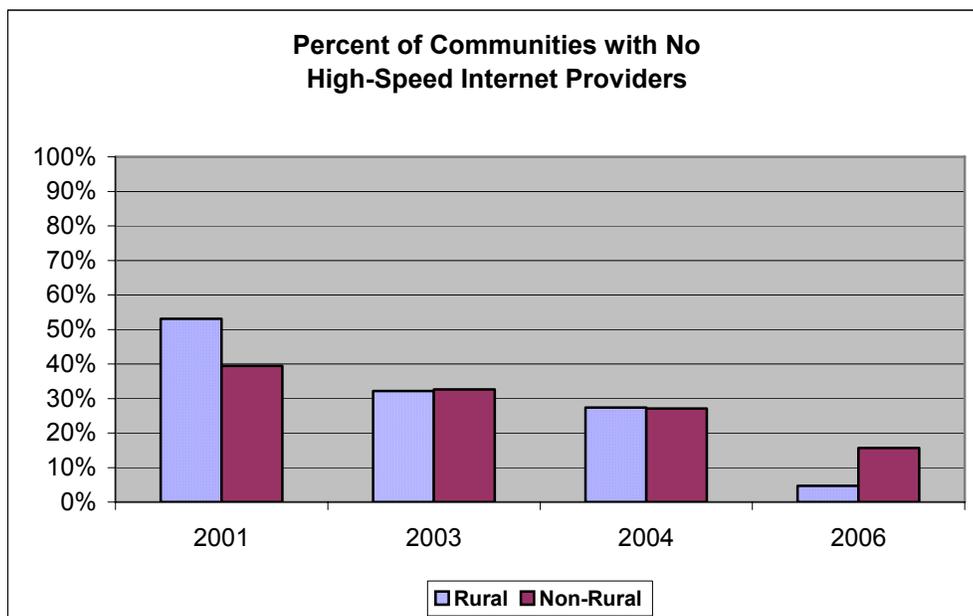
\*Based on 935 identified rural communities in July 2004 and 963 in January 2006.

\*\*Based on 273 identified non-rural communities in July 2004 and 268 in January 2006.

The graph illustrates the percentage of rural and non-rural communities that have two or more high-speed Internet providers. There were 63 out of 917 rural communities, or 6.9 percent, with two or more competitors in September 2001. This compares to 560 out of 963 communities, or 58.2 percent in January 2006. In non-rural areas, there were 70 out of 274 communities, or 25.5 percent, that had two or more competitors in September 2001 versus 173 of the 268 communities, or 64.6 percent, in January 2006.



Another measure of the increasing access of high-speed Internet service in Iowa is the decreasing number of communities that have no providers, as shown in the following graph. In September 2001, 487 out of 917 rural communities, or 53.1 percent, had no provider of high-speed Internet service. By January 2006 that number had dropped to 45 out of 963 rural communities, or just below 5.0 percent. For non-rural communities, 108 out of 274 communities, or 39.4 percent, had no high-speed Internet service in September 2001, whereas in January 2006, 42 out of 268 communities, or 15.7 percent of non-rural communities had no high-speed Internet provider.



## Level of Demand for High-Speed Services

### **Fifth Assessment Conclusion:**

*The level of demand for high-speed Internet technologies is greatest for cable-modem in non-rural communities.*

In Table XII, the responses from service providers where high-speed Internet access is available shows that the level of demand for, or interest in, high-speed Internet technologies is greatest for cable-modem in non-rural communities. The levels were defined as: low (3 percent or less), medium (between 4 percent and 19 percent), or high (20 percent or greater). Rural customers' demand and inquiries are greatest for wireless/satellite and xDSL while low for cable-modem technologies. The demand level for these technologies appears to follow the current availability of the technology in the rural and non-rural areas. This is especially evident when looking at the demand and availability for cable-modem technology.

	Rural		Non-Rural	
	Customer Inquiries	Customer Demand	Customer Inquiries	Customer Demand
xDSL	Low	Low/Medium	Medium	Low/Medium
Cable-Modem	Low	Low	Medium/High	Medium
Wireless/Satellite	Medium/Low	Low	Medium/Low	Low

## Availability and Demand of Higher Speed Internet Service

### **Fifth Assessment Conclusion:**

*Non-rural customers are using higher speeds for Internet service more than rural customers.*

In the IUB's Fifth Assessment, high-speed Internet service providers were asked to report the number of customers they had in each of the four download speed categories: 200-512 Kbps; 513-999 Kbps; 1-4.99 Mbps; and Over 5 Mbps. Nearly 50 percent of non-rural customers were reported as subscribing to service with download speeds of 1-4.99 Mbps, while 71.0 percent of rural customers subscribed to services with download speeds of 200-512 Kbps. Overall, 65.7 percent of customers subscribed to service with download speeds of 1-4.99 Mbps and 27.0 percent subscribed to service with download speeds of 200-512 Kbps.

According to the Fifth Assessment data, 95.9 percent of customers using cable-modem technology subscribe to services with download speeds of 1-4.99 Mbps. In contrast, 48.3 percent of wireless/satellite high-speed Internet customers and 53.0 percent of xDSL customers subscribe to services with download speeds of 200-512 Kbps.

While many Iowans desire to have higher download speeds for the same or even a slightly higher price, several survey respondents noted that many of their customers (in some cases over half of their Internet customers) choose a service that provides download speeds of 128 Kbps (or below). Although these services do not meet the definition of high-speed for the IUB's Assessments, these respondents believe that this service is noteworthy, because it does provide an alternative for connecting customers to the Internet.

Since the IUB Assessment does not survey consumers, it is difficult to determine why non-rural customers use higher speeds than rural customers. It could be a number of factors such as: the higher price for the higher speeds, availability of higher speeds, or reliability of the higher speeds offered.

### **Pricing of High-Speed Services**

The past four IUB High-Speed Internet Assessments have tried to gauge the availability of high-speed Internet in Iowa. The Fifth Assessment also looks at the affordability by asking service providers to list their various high-speed Internet access services and related prices. Additionally, the survey asked whether they provide a stand-alone Internet service, or if high-speed Internet access were only offered with existing telephone or cable services.

According to data gathered in the Fifth Assessment, stand-alone services are available in every technology group, but most common with the wireless/satellite technology. Nearly half of the cable-modem and xDSL service providers reported offering some type of stand-alone high-speed Internet access.

Due to the diversity of the pricing for high-speed Internet access, it is difficult to quantify results from the pricing section of the Fifth Assessment. Each technology group; cable, wireless/satellite, and xDSL, reported offering an Internet service starting around \$20.00 to \$25.00 per month. The prices increased depending on the Internet speed, length of contract, and whether the Internet service was bundled with an existing telephone or cable service.

The average price for xDSL with a speed of 256 Kbps in at least one direction was approximately \$40.00 while the price xDSL with a speed of 512 Kbps in at least one direction averaged about \$54.00. Installation fees for xDSL ranged from \$40.00 to \$150.00, but many providers waive this fee if the customer signed a contract for a minimum length of time.

The installation fee for cable was also waived by many providers if the customer signed a contract, but may be as much as \$129.95. The average price for cable-modem Internet service with a speed of 256 Kbps in at least one direction was roughly \$32.00 and was approximately \$40.00 for Internet service with a speed of 512 Kbps in at least one direction. For cable-modem Internet service with speeds between 1 Mbps and 10 Mbps, the average price is about \$75.00.

Wireless or satellite service has the highest installation fees, ranging from \$70.00 to \$299.00. Very few wireless or satellite providers reported that they would waive installation fees. The average price per month for wireless or satellite Internet service with a speed of 256 Kbps in at least one direction was nearly \$45.00 while the price for service with a speed of 512 Kbps in at least one direction was approximately \$60.00.

## 5.0 NATIONAL DATA

On April 3, 2006, the FCC released its report “High-Speed Services for Internet Access: Status as of June 30, 2005.” The report summarizes data filed on FCC Form 477 as of June 30, 2005. Prior to the June 30, 2005 data, the FCC required state-level data from providers with at least 250 high-speed connections in the state. That requirement changed; and now all facilities-based providers of high-speed connections to end-users are obligated to file the FCC Form 477. This change resulted in twice as many companies reporting information to the FCC on a nationwide basis in June 2005 compared to December 2004. The number of providers who serve Iowa and reported to the FCC increased from 61 in December 2004 to 178 in June 2005. Like the new FCC requirement, the IUB survey attempts to compile data from all providers regardless of the number of high-speed connections they have in the state. In total, the IUB Assessment found that there were 233 providers of high-speed Internet services in Iowa.

Data reported in the summary tables within the FCC report is based primarily on the number of high-speed lines by state or by the type of technology. The IUB survey attempted to compile similar data, but the definition of the technology categories (ADSL, SDSL, Cable, etc.) may not be directly comparable. Additionally, it is important to note that the FCC data is from June 2005 while the IUB Assessment data is from January 2006.

The following analysis compares the FCC data for Iowa to the national or other state data. The following tables use data taken from the April 3, 2006, FCC report “High-Speed Services for Internet Access: Status as of June 30, 2005.”

State	ADSL	SDSL	Traditional Wireline	Cable-Modem	Fiber	Satellite	Fixed Wireless	Mobile Wireless	Power Line	Total
<b>Iowa</b>	<b>119</b>	<b>48</b>	<b>29</b>	<b>27</b>	<b>15</b>	*	<b>32</b>	<b>0</b>	*	<b>178</b>
Texas	57	20	20	14	16	*	48	5	*	118
Illinois	50	25	27	14	8	*	32	*	*	108
Minnesota	66	29	14	16	17	*	18	*	0	104
California	23	17	21	20	12	*	23	*	0	80

\*Indicates one to three providers.

The above table shows that Iowa is ranked first in the nation when it comes to the number of providers of high-speed lines. This is most likely due to the large number of smaller incumbent telephone companies that Iowa has when compared to other states. According to responses to the IUB's Fifth Assessment, there were 194 ILECs and CLECs, 18 cable companies and 21 wireless or satellite companies that provide some form of high-speed Internet technology in the state of Iowa. ILECs and CLECs normally provide high-speed Internet services via xDSL, which includes ADSL, SDSL, or traditional wireline technology such as T-carrier, but the IUB Assessment does not distinguish between various types of xDSL technology.

Since the IUB Assessment and the FCC data do not have the same number of providers, there are some differences when comparing IUB data to the FCC data.

State	ADSL	SDSL	Traditional Wireline	Cable-Modem	Fiber	Satellite	Fixed Wireless	Mobile Wireless	Power Line
<b>Iowa</b>	<b>36.9%</b>	<b>1.4%</b>	<b>0.2%</b>	<b>58.1%</b>	<b>0.6%</b>	<b>0.0%</b>	<b>2.8%</b>	<b>0.0%</b>	<b>0.0%</b>
Nationwide	38.5%	1.0%	1.1%	56.9%	0.2%	0.9%	0.5%	0.9%	0.0%
IUB Data	45.9%		51.7%		2.5%				

The data collected in the IUB's Fifth Assessment show that 45.9 percent of the reported high-speed Internet customers in Iowa use xDSL technology while 51.7 percent utilize cable-modem technology. This compares to the FCC's data in Table XIV showing that a total of 38.5 percent of Iowa's high-speed Internet lines are ADSL, SDSL, or traditional wireline and 58.1 percent are cable-modem. Table XIV also illustrates that the high-speed technologies in Iowa are very comparable to those available on a nationwide basis.

	Comparing December 2004 to June 2005	Comparing June 2004 to June 2005
<b>Iowa</b>	<b>16.1%</b>	<b>22.1%</b>
Nationwide	16.7%	13.1%

Table XV translates FCC data into growth percentages for all high-speed lines in Iowa and on a national basis. In comparing data from December 2004 to data from June 2005, the overall growth rate for high-speed lines in Iowa was just below the national average, but from June 2004 to June 2005 the growth rate for high-speed lines in Iowa exceeded the national average. This indicates that most of the growth during that twelve-month period occurred from June 2004 to December 2004.

The data in Table XVI and Table XVII gives the growth rate percentages for two of the FCC's technology categories, ADSL and cable-modem. The other technology categories were not documented at a state level in the previous reports issued by the FCC. In comparing data from December 2004 to June 2005, the growth rate for high-speed lines in Iowa was above the national average in ADSL but below the national average in cable-modem. When comparing the June 2004 data to June 2005 data, Iowa's growth rate for both ADSL and cable-modem exceeded the national growth rate. The growth rate for ADSL, one of the xDSL technologies, can be explained in part to Iowa Telecom's goal of having high-speed Internet access deployed to all of its exchanges by midyear 2005.

<b>Table XVI</b>		
<b>Growth Percent of <u>ADSL</u> High-Speed Lines</b>		
<b>(Over 200 Kbps in at least one direction)</b>		
	Comparing December 2004 to June 2005	Comparing June 2004 to June 2005
<b>Iowa</b>	<b>35.3%</b>	<b>33.9%</b>
Nationwide	21.2%	17.1%

<b>Table XVII</b>		
<b>Growth Percent of <u>Cable-Modem</u> High-Speed Lines</b>		
<b>(Over 200 Kbps in at least one direction)</b>		
	Comparing December 2004 to June 2005	Comparing June 2004 to June 2005
<b>Iowa</b>	<b>7.9%</b>	<b>14.4%</b>
Nationwide	14.9%	12.1%

The FCC data in Table XVIII shows the breakdown of high-speed users, indicating that in Iowa there are a slightly larger percentage of residential and small business high-speed Internet lines compared to the nationwide data. The IUB's Fifth Assessment requested that providers report the number of residential versus the number of business customers, but there was no further breakdown of business customers into the large and small categories. Additionally, several providers noted that they do not distinguish between residential and business customers; therefore, they reported all customers as either residential or business. The data reported shows that 89.5 percent of the high-speed Internet customers are residential while 10.5 percent are business.

<b>Table XVIII</b>		
<b>High-Speed Lines by Type of User as of June 30, 2005</b>		
<b>(Over 200 Kbps in at least one direction)</b>		
	Residential & Small Businesses	Other*
<b>Iowa</b>	<b>90.2%</b>	<b>9.8%</b>
Nationwide	89.9%	10.1%

\*Includes medium and large business, institutional, and governmental customers.

According to the FCC data represented in Table XIX, 2 percent of Iowa zip codes had no high-speed Internet lines in service. This means that the providers did

not have any customers in 2 percent of Iowa's zip codes. This compares to 2 percent nationwide. The FCC data shows that there are more than ten other states that have a larger percentage of zip codes with no high-speed Internet lines in service than what Iowa has.

In the IUB's Fifth Assessment, the respondents were asked to report the zip codes where they provide high-speed Internet service not where there are high-speed lines in service. Since several providers just gave a total customer count for their entire service area rather than by community or zip code, the IUB Assessment does not provide comparable data to that of the FCC's in Table XIX.

<b>Table XIX</b>											
<b>Percentage of Zip Codes with High-Speed Lines in Service</b>											
<b>as of June 30, 2005</b>											
<b>(Over 200 Kbps in at least one direction)</b>											
<b>Number of Providers</b>											
	Zero	One	Two	Three	Four	Five	Six	Seven	Eight	Nine	Ten or More
<b>Iowa</b>	<b>2%</b>	<b>18%</b>	<b>22%</b>	<b>20%</b>	<b>14%</b>	<b>11%</b>	<b>5%</b>	<b>4%</b>	<b>3%</b>	<b>1%</b>	<b>1%</b>
Nationwide	2%	9%	14%	15%	13%	10%	7%	5%	4%	4%	18%

According to the FCC data in Table XX, Iowa has xDSL available to 77 percent of the customers where ILECs provide local telephone service and cable-modem high-speed Internet service is available to 85 percent of customers where cable providers offer cable television services. The IUB Assessment also asked for penetration information. The IUB data shows xDSL is available to 84 percent of the customers where an ILEC serves and cable-modem high-speed Internet is available to 95 percent of customers where cable systems provide cable television services.

<b>Table XX</b>		
<b>Percentage of Residential End-User Premises with Access to High-Speed Services</b>		
<b>as of June 30, 2005</b>		
	xDSL Availability Where ILECs Offer Local Telephone Service	Cable-Modem Availability Where Cable Systems Offer Cable TV Service
<b>Iowa</b>	<b>77%</b>	<b>85%</b>
Nationwide	76%	91%
IUB Data	84%	95%

## 6.0 SUMMARY

This Fifth Assessment is a glimpse at Iowa's current and near-term availability of high-speed Internet access in Iowa. While great strides have been made since the original assessment was done in 2000, the report indicates there is still some work to be done in both rural and non-rural areas.

Results of the Fifth Assessment, compared to earlier assessments, show a steady progression in the deployment of high-speed Internet access. The presence of xDSL, cable-modem, and wireless/satellite technologies continues to increase throughout Iowa. In January 2006, 1,144 of the 1,231 communities, or 92.9 percent, had access to one or more types of high-speed Internet technologies. This compares to 878 of the 1,208 communities, or 72.7 percent, in July 2004.

As the availability of high-speed Internet access in Iowa increases, so has the number of competitors, bringing to more Iowans the ability to choose the speed, package, and pricing of the high-speed Internet access service that fits their needs. Still, high-speed Internet access is not available to all Iowans. According to data collected in the Fifth Assessment, industry projects four additional communities will have access to high-speed Internet services by January 2007, which leaves 83 communities with no access to high-speed Internet services. Most of these communities are unincorporated areas that are not the primary community within their zip code. The majority of communities not served have populations of 200 or less. Only four of the 83 communities have a population over 500, including one that has a population of over 1,000. While industry has not given deployment projections that cover these specific communities, many of these communities are within a zip code or telephone exchange that has high-speed Internet access. Supplying high-speed Internet access to these communities is a decision to be made by each provider. Their decision may be based, in part, on customer demand, the economic return on their investment, or technology limitations. Until all Iowans have access to high-speed Internet services, policymakers will continue to discuss how they can encourage its deployment.

## **LIST OF ACRONYMS**

ADSL – Asymmetric Digital Subscriber Line

Bps – Bits Per Second

CLEC – Competitive Local Exchange Carrier

DSL – Digital Subscriber Line

FCC – Federal Communications Commission

IDED – Iowa Department of Economic Development

ILEC – Incumbent Local Exchange Carrier

IUB – Iowa Utilities Board

Kbps – Thousand Bits Per Second

LEC – Local Exchange Carrier

Mbps – Megabits Per Second

SDSL – Symmetric Digital Subscriber Line

xDSL – Family of Digital Subscriber Line Service

## ATTACHMENT A

### **Survey Instruments**

Iowa Utilities Board High-Speed Internet Access Survey Cover Letter

Iowa Utilities Board High-Speed Internet Access Survey



THOMAS J. VILSACK  
GOVERNOR  
SALLY J. PEDERSON  
LT. GOVERNOR

IOWA UTILITIES BOARD  
IOWA DEPARTMENT OF COMMERCE

January 25, 2006

The Iowa Utilities Board (IUB) continues to evaluate the availability of high-speed Internet access in the state. Senate File 2433 initiated the original assessment conducted in July 2000. Follow-up assessments were conducted in September 2001, January 2003, and July 2004. As with the previous assessments, this one will measure the continued deployment of these services and compare them to the previously recorded results. Additionally, this assessment will provide further information for issues related to technical and policy concerns in Iowa.

Similar to the prior assessments, the survey defines high-speed technology as technology capable of providing access services with over 200 kilobits per second (kbps), this being consistent with the Federal Communication Commission's definition of high-speed Internet access. Additionally, this survey will be distributed to all entities capable of providing high-speed broadband Internet access services in Iowa, including facilities-based local exchange carriers, cable providers, wireless, and satellite companies. This survey will assess the immediate availability of these services by geographic region of the state.

Once completed, the results and conclusions of the IUB's fifth assessment will be contained in a report entitled, "Assessing High-Speed Internet Access in the State of Iowa: Assessment V." This report, when finished, will be available with the previous reports on the Utilities Board's Web site at [www.state.ia.us/iub](http://www.state.ia.us/iub).

In order to successfully complete the fifth assessment, the Utilities Board needs your help in responding to the attached surveys, which are also available online at [www.state.ia.us/iub](http://www.state.ia.us/iub). The attached surveys are in Word format and you can respond to the survey by utilizing the "drop-down boxes" in each of the applicable columns. Additional sheets can be attached if necessary. We ask that you to take a few minutes to complete the enclosed surveys and return them by **February 17, 2006** to:

Brenda Biddle, Utility Analyst  
Iowa Utilities Board  
350 Maple Street  
Des Moines, IA 50319-0069  
E-Mail: [Brenda.Biddle@iowa.gov](mailto:Brenda.Biddle@iowa.gov)  
**Survey Mailbox: [IUBSurveys@iub.state.ia.us](mailto:IUBSurveys@iub.state.ia.us)**  
Phone: 515-242-0218 Fax: 515-281-5329

Your input is crucial to the success of the fifth assessment. All information will be aggregated on an industry basis only.

Finally, in order to maintain an updated contact database for future assessments, please complete the first page of the survey and check the applicable box even if you do not currently provide high-speed Internet service greater than 200 kbps in the state of Iowa.

Thank you for your prompt assistance in this fifth assessment.

Sincerely,

John Norris, Chairperson

Diane Munns, Board Member

Curt Stamp, Board Member





## Section 2 – Current High-Speed Internet Customer Data by Community

- Please use the worksheet format to provide information for **EACH COMMUNITY** served in Iowa. Additional sheets are necessary if you serve more than 10 communities.

(a) List all Communities Currently Serving	(b) List the Community's Zip Code(s)	(c) Do You Currently Offer High- Speed Internet Services to <b>Residential Customers</b> in this Community/ Zip Code	(d) Do You Currently Offer High- Speed Internet Services to <b>Business Customers</b> in this Community/ Zip Code	(e) <u>Total</u> Number of Customers in this Community/ Zip Code	(f) Number of Customers Currently Subscribing to High-Speed Internet Service  <i>Speeds listed below are download speeds</i>  Please fill in number of Residential (Res) and Business (Bus) customers by Internet speed range								(g) Number of Customers that Currently Have Access to Your High- Speed Internet Service in this Community/ Zip Code	(h) Assess the Relationships Between Customer Inquires and High-Speed Services in this Community/ Zip Code (Low, Medium, High)
					200-512 Kbps		513-999 Kbps		1-4.99 Mbps		Over 5 Mbps			
					Res	Bus	Res	Bus	Res	Bus	Res	Bus		
Example City	99999	Yes	No	1000	200	10	125	25	0	0	0	0	675	Low
		Choose Y/N	Choose Y/N											Choose One
		Choose Y/N	Choose Y/N											Choose One
		Choose Y/N	Choose Y/N											Choose One
		Choose Y/N	Choose Y/N											Choose One
		Choose Y/N	Choose Y/N											Choose One
		Choose Y/N	Choose Y/N											Choose One
		Choose Y/N	Choose Y/N											Choose One
		Choose Y/N	Choose Y/N											Choose One

- Column (a) – Please list the communities where you provide high-speed Internet service. For areas served outside the city limits, those subscribers should be assigned to the community where they receive service.
- Column (b) – Zip Code(s) that correspond to the community listed in Column (a).
- Column (e) – This should be the total number of customers (both residential and business) for your primary service in each community (i.e. telephone, cable television or wireless telephone service). For ILEC and CLEC service providers, please list the total number of access lines.
- Column (f) – This should be the total number of your high-speed Internet customers in each community (access lines for xDSL). Please give the number of residential and business customers in each Internet speed category, which are listed by download speeds.
- Column (g) – Please list the number of customers (both residential and business) you could serve immediately with high speed Internet in each community.
- Column (h) “**Customer inquiries**” for high-speed Internet service greater than 200 Kbps is defined as: **Low** (received 3% or less inquiries); **Medium** (received between 4% and 19% inquiries); or **High** (received 20% or greater inquiries).

IUB Contact: Brenda Biddle

Phone: (515) 242-0218

E-Mail: [brenda.biddle@iowa.gov](mailto:brenda.biddle@iowa.gov)



**Section 3 – Prospective High-Speed Internet Communities**

- Please list any additional communities that you plan to provide high-speed Internet service to within the next 12 months (by year-end 2006).

List all Additional Communities that will be Served by Year End of 2006	List the Community's Zip Code(s)	Month in which High-Speed Internet Service will be Available
		Pick a Month

**Section 4 – Pricing Information**

- Does your company currently provide a stand-alone high-speed Internet service?  
 Yes  What is the price of that service?  
 No  Please list all the current high-speed Internet options and corresponding prices.

Type of Service (Internet Speed, Bundled Services, etc.)	Recurring Rate Billed to the Customer per Month – Including any Rental Charges for Equipment (List Range if Price Varies by Community)	Term of Contract – if applicable	Other Items – Include any Offers or Other Features as applicable	Installation Fee
<i>Example – Internet 384 K (up and down)</i>	<i>\$79.95</i>	<i>1 year contract</i>	<i>Free Modem</i>	<i>\$25.00</i>

Availability of high-speed Internet access in a community **DOES NOT** mean the technology is available to ALL customers in that community.

## ATTACHMENT B

### **MAPS**

Iowa Utilities Board High-Speed Internet Technology Map for: xDSL, Cable-Modem, and Wireless/Satellite Service

- Communities with High-Speed Internet Available as of January 2006.
- Communities with High-Speed Internet Projected to be Available by January 2007.

Iowa Utilities Board High-Speed Internet Technology Map for: xDSL Service

- Communities with High-Speed Internet Available as of January 2006.
- Communities with High-Speed Internet Projected to be Available by January 2007.

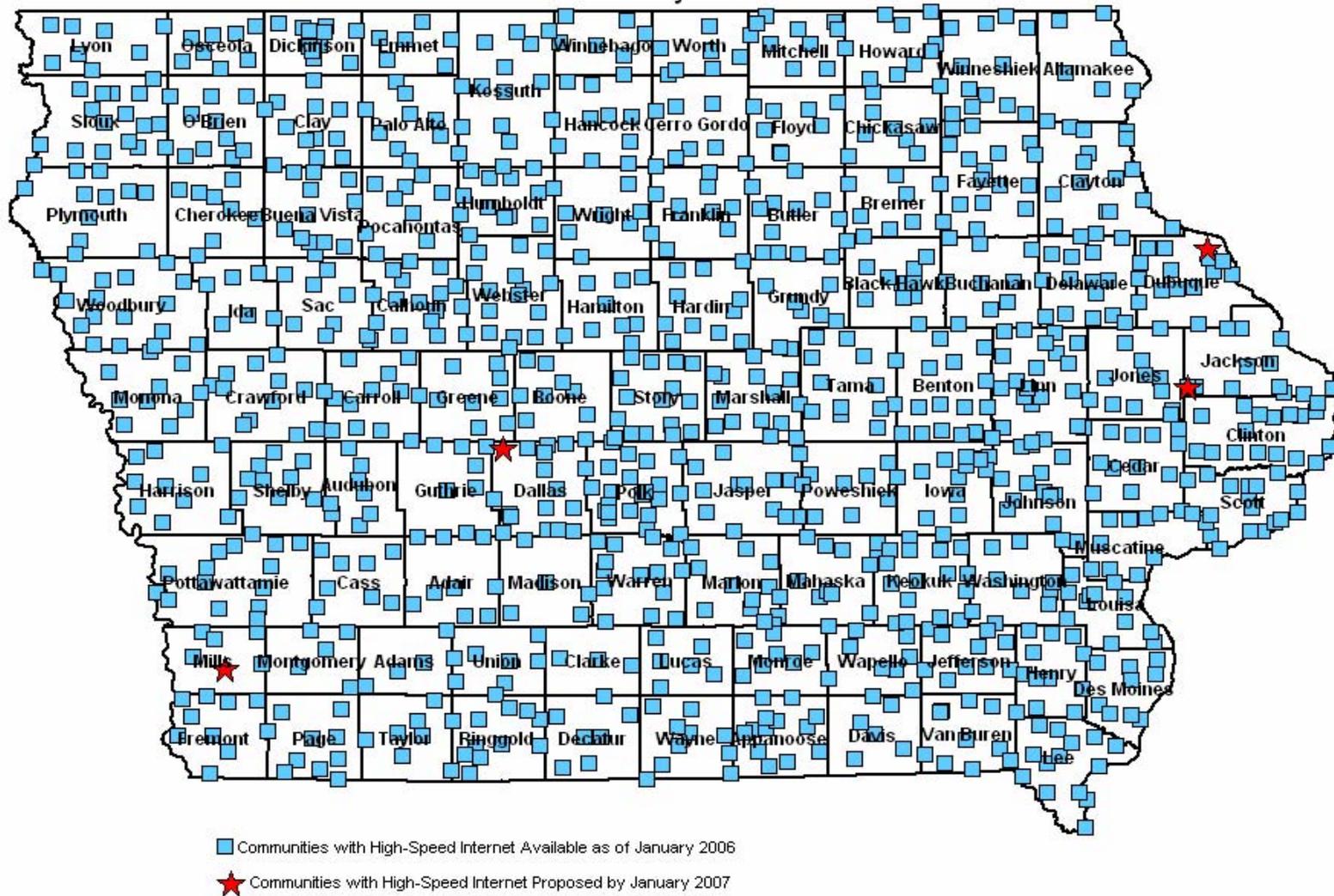
Iowa Utilities Board High-Speed Internet Technology Map for: Cable-Modem Service

- Communities with High-Speed Internet Available as of January 2006.
- Communities with High-Speed Internet Projected to be Available by January 2007.

Iowa Utilities Board High-Speed Internet Technology Map for: Wireless/Satellite Service

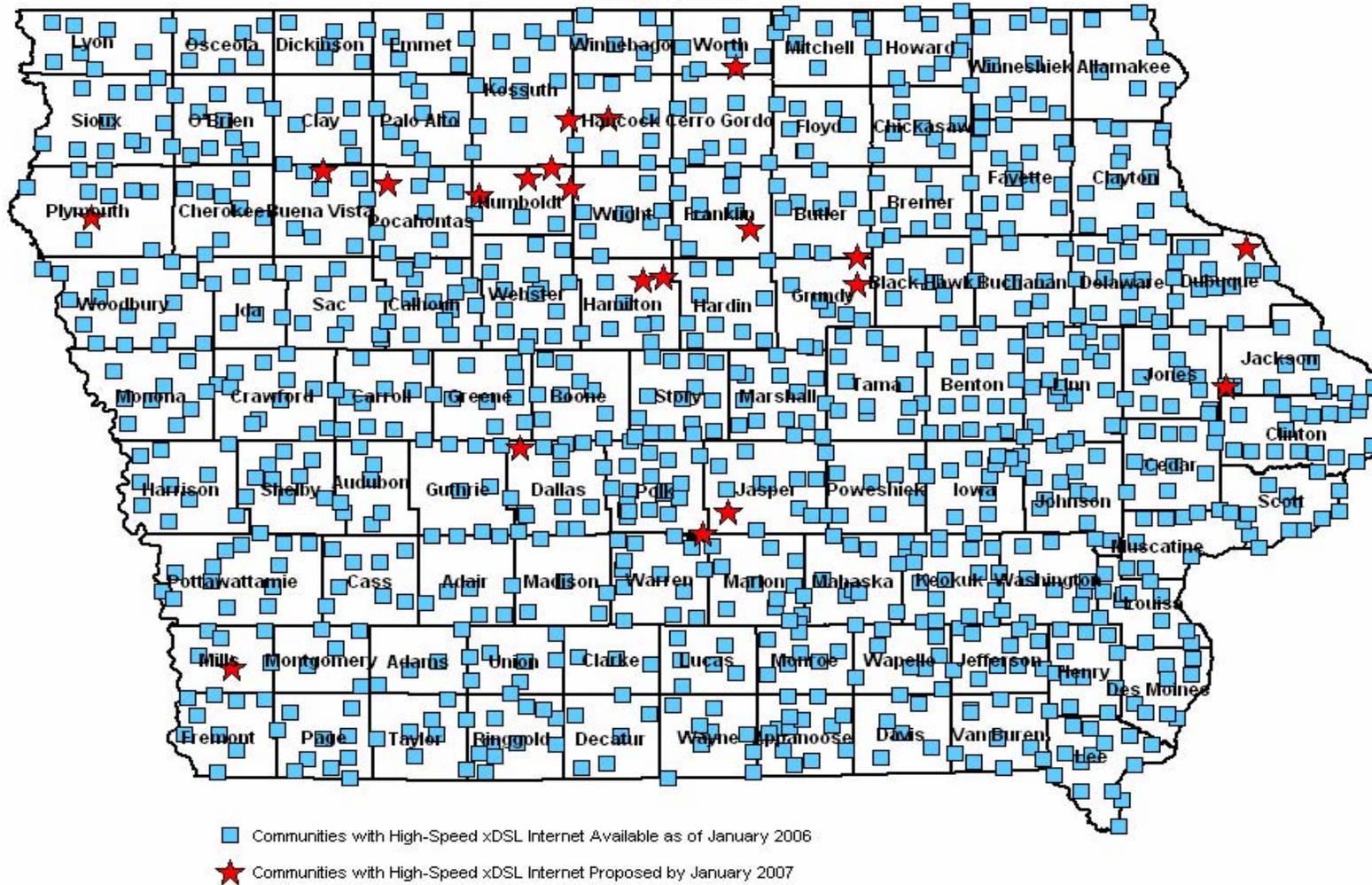
- Communities with High-Speed Internet Available as of January 2006.
- Communities with High-Speed Internet Projected to be Available by January 2007.

STATE OF IOWA  
 High-Speed Technology Map  
 xDSL, Cable-Modem, and Wireless/Satellite Services  
 January 2006



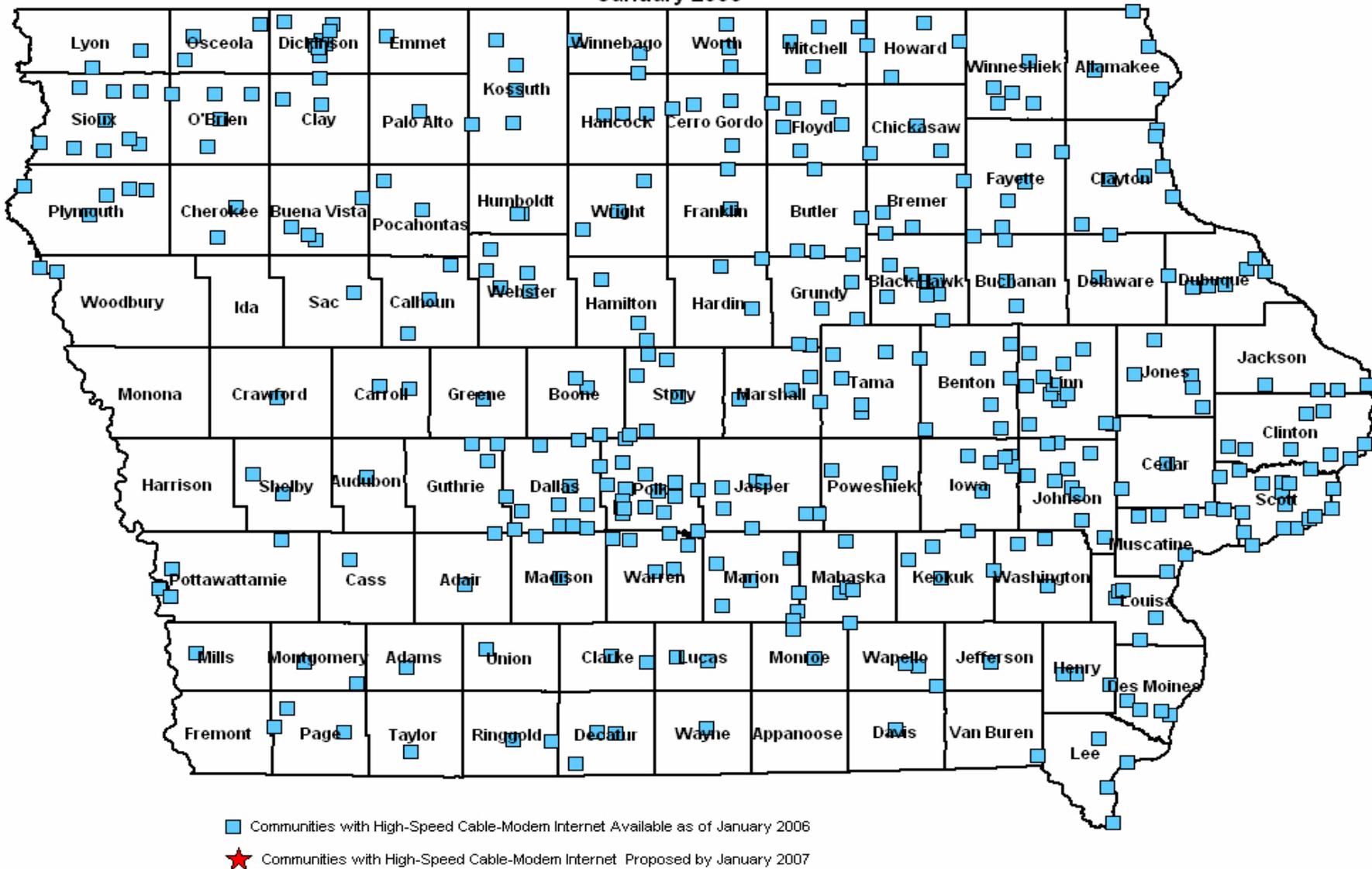
Availability of high-speed Internet access in a community **DOES NOT** mean the technology is available to ALL customers in that community.

STATE OF IOWA  
 High-Speed Internet Technology Map  
 xDSL Service  
 January 2006



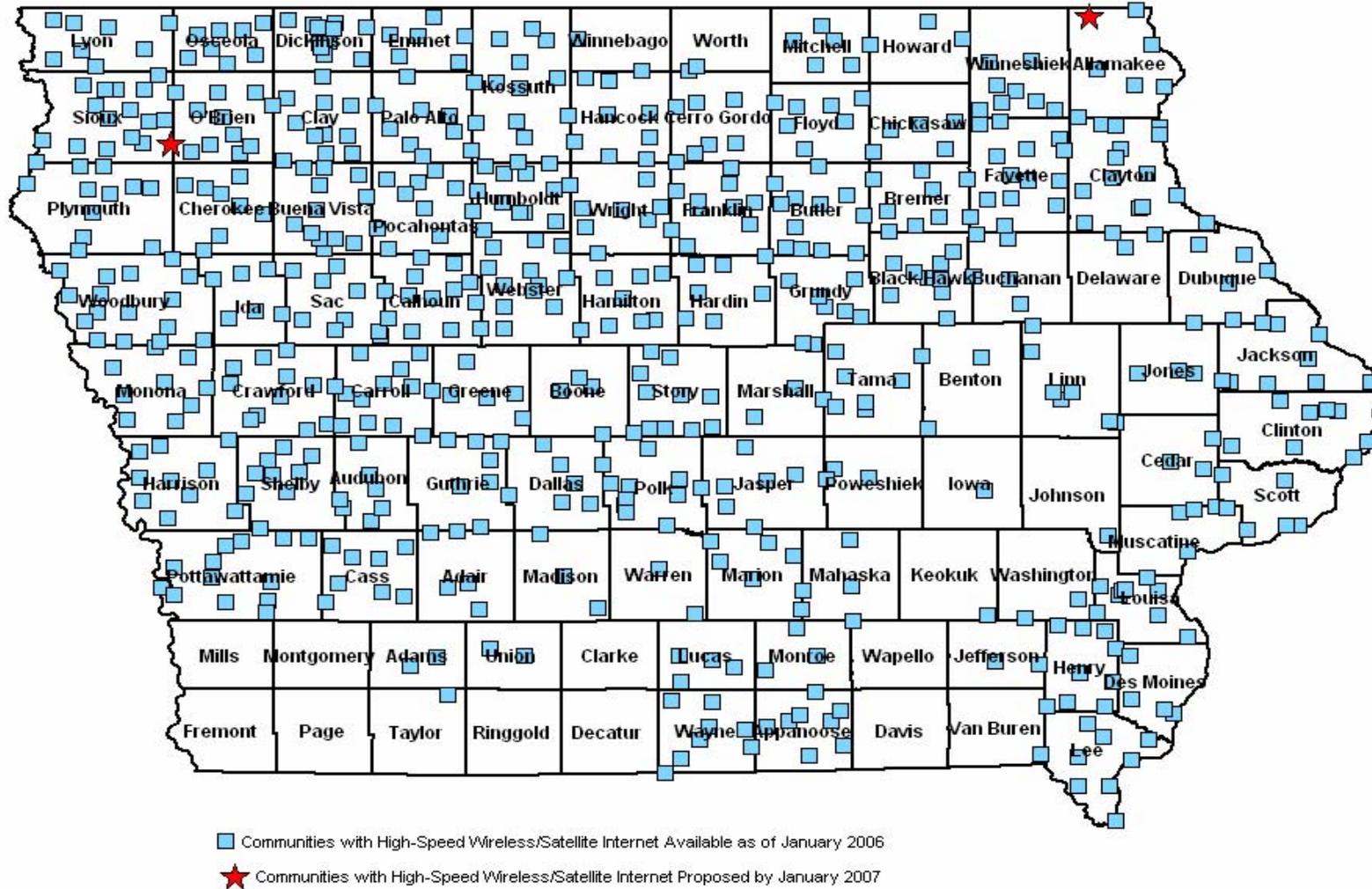
Availability of high-speed Internet access in a community **DOES NOT** mean the technology is available to ALL customers in that community.

STATE OF IOWA  
 High-Speed Technology Map  
 Cable-Modem Services  
 January 2006



Availability of high-speed Internet access in a community **DOES NOT** mean the technology is available to ALL customers in that community.

STATE OF IOWA  
 High-Speed Technology Map  
 Wireless/Satellite Services  
 January 2006



Availability of high-speed Internet access in a community **DOES NOT** mean the technology is available to ALL customers in that community.

## **ATTACHMENT C**

Fifth Assessment of Iowa Communities Accessing High-Speed Technologies

(As of January 2006)

**FIFTH ASSESSMENT OF IOWA COMMUNITIES ACCESSING HIGH-SPEED INTERNET TECHNOLOGIES**

County Name	Community Name	Pop. Code	xDSL		Cable-Modem		Wireless/Satellite	
			Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007
Adair	Adair	R	X	X			X	X
Adair	Bridgewater	R	X	X				
Adair	Fontanelle	R	X	X			X	X
Adair	Greenfield	R	X	X	X	X	X	X
Adair	Orient	R	X	X			X	X
Adair	Stanzel	R	X	X				
Adair	Zion	R	X	X				
Adams	Brooks	R	X	X				
Adams	Carbon	R	X	X				
Adams	Corning	R	X	X	X	X	X	X
Adams	Nevinville	R	X	X				
Adams	Nodaway	R	X	X				
Adams	Prescott	R	X	X			X	X
Allamakee	Dorchester	R	X	X				X
Allamakee	Hanover	U	X	X				
Allamakee	Harper's Ferry	R	X	X	X	X	X	X
Allamakee	Lansing	R	X	X	X	X	X	X
Allamakee	New Albin	R	X	X	X	X	X	X
Allamakee	Postville	R					X	X
Allamakee	Rossville	U						
Allamakee	South Spring Grove	R	X	X			X	X
Allamakee	Waterville	R	X	X			X	X
Allamakee	Waukon	U	X	X	X	X	X	X
Appanoose	Brazil	R						
Appanoose	Centerville	U	X	X	X	X	X	X
Appanoose	Cincinnati	R	X	X				
Appanoose	Exline	R	X	X			X	X
Appanoose	Garfield	R	X	X				
Appanoose	Iconium	R	X	X				
Appanoose	Livingston	R	X	X				
Appanoose	Moravia	R	X	X			X	X
Appanoose	Moulton	R	X	X			X	X

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**FIFTH ASSESSMENT OF IOWA COMMUNITIES ACCESSING HIGH-SPEED INTERNET TECHNOLOGIES**

County Name	Community Name	Pop. Code	xDSL		Cable-Modem		Wireless/Satellite	
			Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007
Appanoose	Mystic	R	X	X			X	X
Appanoose	Numa	U	X	X				
Appanoose	Plano	R	X	X			X	X
Appanoose	Rathbun	U	X	X			X	X
Appanoose	Udell	R	X	X			X	X
Appanoose	Unionville	R	X	X			X	X
Appanoose	Walnut City	R	X	X				
Audubon	Audubon	R	X	X	X	X	X	X
Audubon	Brayton	R	X	X			X	X
Audubon	Exira	R	X	X			X	X
Audubon	Fiscus	R	X	X				
Audubon	Gray	R	X	X			X	X
Audubon	Hamlin	R					X	X
Audubon	Kimballton	R	X	X			X	X
Audubon	Ross	R	X	X				
Benton	Atkins	R	X	X				
Benton	Belle Plaine	U	X	X	X	X	X	X
Benton	Blairstown	R	X	X				
Benton	Garrison	R	X	X				
Benton	Keystone	R	X	X				
Benton	Luzerne	U	X	X				
Benton	Mount Auburn	R	X	X				
Benton	Newhall	R	X	X	X	X		
Benton	Norway	R	X	X	X	X		
Benton	Shellsburg	R	X	X	X	X		
Benton	Urbana	R	X	X	X	X		
Benton	Van Horne	R	X	X				
Benton	Vinton	U	X	X	X	X	X	X
Benton	Walford	R	X	X				
Benton	Watkins	R	X	X				
Black Hawk	Cedar Falls	U	X	X	X	X	X	X
Black Hawk	Cedar Rapids	U	X	X	X	X	X	X

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**FIFTH ASSESSMENT OF IOWA COMMUNITIES ACCESSING HIGH-SPEED INTERNET TECHNOLOGIES**

County Name	Community Name	Pop. Code	xDSL		Cable-Modem		Wireless/Satellite	
			Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007
Black Hawk	Dewar	U					X	X
Black Hawk	Dunkerton	R	X	X			X	X
Black Hawk	Elk Run Heights	U	X	X	X	X		
Black Hawk	Evansdale	U	X	X	X	X	X	X
Black Hawk	Gilbertville	U	X	X	X	X	X	X
Black Hawk	Hudson	R	X	X	X	X	X	X
Black Hawk	La Porte City	R	X	X	X	X	X	X
Black Hawk	Raymond	U			X	X	X	X
Black Hawk	Washburn	U			X	X		
Black Hawk	Waterloo	U	X	X	X	X	X	X
Boone	Zook Spur	U	X	X				
Boone	Beaver	R	X	X				
Boone	Berkley	R	X	X				
Boone	Boone	U	X	X	X	X	X	X
Boone	Boxholm	R	X	X				
Boone	Luther	R	X	X				
Boone	Madrid	U	X	X	X	X	X	X
Boone	Ogden	R	X	X			X	X
Boone	Pilot Mound	R	X	X				
Bremer	Bremer	U						
Bremer	Buck Creek	R	X	X				
Bremer	Denver	R	X	X	X	X	X	X
Bremer	Finchford	R	X	X				
Bremer	Frederkia	R	X	X			X	X
Bremer	Horton	R						
Bremer	Janesville	R	X	X	X	X	X	X
Bremer	Plainfield	R	X	X			X	X
Bremer	Readlyn	R	X	X			X	X
Bremer	Sumner	R	X	X	X	X	X	X
Bremer	Tripoli	R	X	X			X	X
Bremer	Waverly	U	X	X	X	X	X	X
Buchanan	Aurora	R	X	X				

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**FIFTH ASSESSMENT OF IOWA COMMUNITIES ACCESSING HIGH-SPEED INTERNET TECHNOLOGIES**

County Name	Community Name	Pop. Code	xDSL		Cable-Modem		Wireless/Satellite	
			Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007
Buchanan	Brandon	R	X	X				
Buchanan	Fairbank	R	X	X	X	X	X	X
Buchanan	Hazleton	R	X	X	X	X	X	X
Buchanan	Independence	U	X	X	X	X	X	X
Buchanan	Jesup	R	X	X			X	X
Buchanan	Lamont	R	X	X				
Buchanan	Littleton	R	X	X				
Buchanan	Quasqueton	R	X	X				
Buchanan	Rowley	R	X	X	X	X	X	X
Buchanan	Stanley	R	X	X				
Buchanan	Winthrop	R	X	X				
Buena Vista	Albert City	R	X	X	X	X	X	X
Buena Vista	Alta	U	X	X	X	X	X	X
Buena Vista	Juniata	U					X	X
Buena Vista	Lakeside	U			X	X	X	X
Buena Vista	Linn Grove	R	X	X			X	X
Buena Vista	Marathon	R	X	X			X	X
Buena Vista	Newell	R	X	X			X	X
Buena Vista	Rembrandt	R	X	X			X	X
Buena Vista	Sioux Rapids	R		X			X	X
Buena Vista	Storm Lake	U	X	X	X	X	X	X
Buena Vista	Sulphur Springs	U					X	X
Buena Vista	Truesdale	U					X	X
Butler	Allison	R	X	X			X	X
Butler	Aplington	R	X	X	X	X	X	X
Butler	Aredale	R	X	X			X	X
Butler	Austinville	R					X	X
Butler	Bristow	R	X	X			X	X
Butler	Clarksville	R	X	X			X	X
Butler	Dumont	R	X	X			X	X
Butler	Greene	R	X	X	X	X	X	X
Butler	Kesley	R					X	X

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FIFTH ASSESSMENT OF IOWA COMMUNITIES ACCESSING HIGH-SPEED INTERNET TECHNOLOGIES								
County Name	Community Name	Pop. Code	xDSL		Cable-Modem		Wireless/Satellite	
			Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007
Butler	New Hartford	R		X	X	X	X	X
Butler	Parkersburg	R	X	X	X	X	X	X
Butler	Shell Rock	R	X	X	X	X	X	X
Butler	Sinclair	R						
Calhoun	Farnhamville	R	X	X			X	X
Calhoun	Jolley	R	X	X			X	X
Calhoun	Knierim	R	X	X			X	X
Calhoun	Knoke	R	X	X				
Calhoun	Lake City	R	X	X	X	X	X	X
Calhoun	Lavinia	R	X	X			X	X
Calhoun	Lohrville	R	X	X			X	X
Calhoun	Manson	R	X	X	X	X	X	X
Calhoun	Piper	R	X	X				
Calhoun	Pomeroy	R	X	X			X	X
Calhoun	Rands	R	X	X				
Calhoun	Richards	R	X	X			X	X
Calhoun	Rinard	R	X	X				
Calhoun	Rockwell City	R	X	X	X	X	X	X
Calhoun	Somers	R	X	X			X	X
Calhoun	Yetter	R	X	X			X	X
Carroll	Arcadia	R	X	X			X	X
Carroll	Breda	R	X	X			X	X
Carroll	Carroll	U	X	X	X	X	X	X
Carroll	Coon Rapids	R	X	X			X	X
Carroll	Dedham	R	X	X			X	X
Carroll	Glidden	R	X	X	X	X	X	X
Carroll	Halbur	R	X	X			X	X
Carroll	Lanesboro	R	X	X			X	X
Carroll	Lidderdale	R					X	X
Carroll	Manning	R	X	X			X	X
Carroll	Maple River Junction	U						
Carroll	Mount Carmel	U						

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County Name	Community Name	Pop. Code	xDSL		Cable-Modem		Wireless/Satellite	
			Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007
Carroll	Ralston	R	X	X			X	X
Carroll	Roselle	U						
Carroll	Templeton	R	X	X			X	X
Carroll	Willey	U						
Cass	Anita	R	X	X			X	X
Cass	Atlantic	U	X	X	X	X	X	X
Cass	Cumberland	R	X	X			X	X
Cass	Griswold	R	X	X			X	X
Cass	Lewis	R	X	X			X	X
Cass	Marne	R	X	X			X	X
Cass	Massena	R	X	X			X	X
Cass	Wiota	R	X	X			X	X
Cedar	Bennett	R	X	X			X	X
Cedar	Buchanan	U	X	X				
Cedar	Cedar Bluff	U	X	X				
Cedar	Clarence	R	X	X				
Cedar	Downey	R	X	X				
Cedar	Durant	R	X	X	X	X	X	X
Cedar	Lowden	R	X	X			X	X
Cedar	Massillion	R	X	X				
Cedar	Mechanicsville	R	X	X				
Cedar	Rochester	R	X	X				
Cedar	Springdale	R	X	X				
Cedar	Stanwood	R	X	X				
Cedar	Tipton	U	X	X	X	X	X	X
Cedar	West Branch	R	X	X	X	X		
Cerro Gordo	Burchinal	R	X	X				
Cerro Gordo	Cartersville	R	X	X				
Cerro Gordo	Clear Lake	U	X	X	X	X	X	X
Cerro Gordo	Dougherty	R	X	X				
Cerro Gordo	Mason City	U	X	X	X	X	X	X

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**FIFTH ASSESSMENT OF IOWA COMMUNITIES ACCESSING HIGH-SPEED INTERNET TECHNOLOGIES**

County Name	Community Name	Pop. Code	xDSL		Cable-Modem		Wireless/Satellite	
			Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007
Cerro Gordo	Meservey	R	X	X			X	X
Cerro Gordo	Plymouth	R	X	X	X	X	X	X
Cerro Gordo	Rock Falls	R	X	X				
Cerro Gordo	Rockwell	R	X	X	X	X	X	X
Cerro Gordo	Swaledale	R	X	X			X	X
Cerro Gordo	Thornton	R	X	X			X	X
Cerro Gordo	Ventura	R	X	X	X	X	X	X
Cherokee	Aurelia	R	X	X			X	X
Cherokee	Cherokee	U	X	X	X	X	X	X
Cherokee	Cleghorn	R	X	X			X	X
Cherokee	Larrabee	R	X	X			X	X
Cherokee	Marcus	R	X	X			X	X
Cherokee	Meriden	R	X	X			X	X
Cherokee	Quimby	R	X	X	X	X	X	X
Cherokee	Washta	R	X	X			X	X
Chickasaw	Alta Vista	R	X	X				
Chickasaw	Bassett	U						
Chickasaw	Boyd	U	X	X				
Chickasaw	Bradford	U						
Chickasaw	Fredericksburg	R	X	X	X	X	X	X
Chickasaw	Ionia	U	X	X			X	X
Chickasaw	Lawler	R	X	X			X	X
Chickasaw	Nashua	R	X	X	X	X	X	X
Chickasaw	New Hampton	U	X	X	X	X	X	X
Chickasaw	North Washington	R	X	X				
Clarke	Lacelle	U	X	X				
Clarke	Murray	R	X	X				
Clarke	Osceola	U	X	X	X	X		
Clarke	Woodburn	R	X	X	X	X		
Clay	Cornell	R					X	X
Clay	Dickens	R	X	X			X	X
Clay	Everly	R			X	X	X	X

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County Name	Community Name	Pop. Code	xDSL		Cable-Modem		Wireless/Satellite	
			Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007
Clay	Fostoria	U			X	X	X	X
Clay	Gillett Grove	R	X	X			X	X
Clay	Greenville	U					X	X
Clay	Peterson	R	X	X			X	X
Clay	Rossie	U					X	X
Clay	Royal	R	X	X			X	X
Clay	Spencer	U	X	X	X	X	X	X
Clay	Webb	R	X	X			X	X
Clayton	Clayton	R			X	X		
Clayton	Clayton Center	R	X	X				
Clayton	Communia	R	X	X				
Clayton	East Amana	R	X	X				
Clayton	Elkader	R	X	X	X	X	X	X
Clayton	Elkport	R					X	X
Clayton	Esmann Island	R			X	X		
Clayton	Farmersburg	R	X	X			X	X
Clayton	Garber	R	X	X			X	X
Clayton	Garnavillo	R	X	X	X	X	X	X
Clayton	Giard	R	X	X				
Clayton	Guttenburg	R	X	X	X	X	X	X
Clayton	Littleport	R						
Clayton	Luana	R	X	X			X	X
Clayton	Marquette	R	X	X	X	X	X	X
Clayton	McGregor	R	X	X	X	X	X	X
Clayton	Mederville	R	X	X				
Clayton	Millville	R	X	X				
Clayton	Monona	R	X	X			X	X
Clayton	North Buena Vista	R					X	X
Clayton	Osborne	R	X	X				
Clayton	Osterdock	R						
Clayton	Saint Olaf	R	X	X			X	X
Clayton	Strawberry Point	R	X	X	X	X	X	X

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County Name	Community Name	Pop. Code	xDSL		Cable-Modem		Wireless/Satellite	
			Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007
Clayton	Volga	R	X	X			X	X
Clayton	Wood	R	X	X				
Clinton	Andover	R	X	X				
Clinton	Bryant	R	X	X			X	X
Clinton	Calamus	R	X	X	X	X		
Clinton	Camanche	U	X	X	X	X	X	X
Clinton	Charlotte	R	X	X	X	X	X	X
Clinton	Clinton	U	X	X	X	X	X	X
Clinton	Delmar	R	X	X			X	X
Clinton	DeWitt	R	X	X	X	X	X	X
Clinton	Elvira	R						
Clinton	Elwood	R	X	X				
Clinton	Goose Lake	R	X	X	X	X	X	X
Clinton	Grand Mound	R	X	X				
Clinton	Lost Nation	R	X	X				
Clinton	Low Moor	R	X	X	X	X		
Clinton	Malone	R	X	X				
Clinton	Petersville	R	X	X				
Clinton	Teeds Grove	U	X	X				
Clinton	Toronto	R	X	X				
Clinton	Welton	R	X	X				
Clinton	Wheatland	R	X	X	X	X	X	X
Crawford	Arion	R	X	X			X	X
Crawford	Aspinwall	R	X	X			X	X
Crawford	Berne	R	X	X				
Crawford	Boyer	R	X	X				
Crawford	Charter Oak	R	X	X			X	X
Crawford	Deloit	U	X	X			X	X
Crawford	Denison	U	X	X	X	X	X	X
Crawford	Dow City	R	X	X			X	X
Crawford	Kiron	R	X	X			X	X
Crawford	Manilla	R	X	X			X	X

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County Name	Community Name	Pop. Code	xDSL		Cable-Modem		Wireless/Satellite	
			Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007
Crawford	Ricketts	R	X	X			X	X
Crawford	Schleswig	R	X	X			X	X
Crawford	Vail	R	X	X			X	X
Crawford	Westside	R	X	X			X	X
Dallas	Adel	U	X	X	X	X	X	X
Dallas	Booneville	R			X	X		
Dallas	Bouton	R	X	X				
Dallas	Dallas Center	R			X	X	X	X
Dallas	Dawson	U		X				
Dallas	DeSoto	R	X	X	X	X		
Dallas	Dexter	R	X	X	X	X		
Dallas	Gardiner	R	X	X				
Dallas	Granger	R	X	X	X	X	X	X
Dallas	Linden	R	X	X	X	X	X	X
Dallas	Minburn	R	X	X			X	X
Dallas	Perry	U	X	X	X	X	X	X
Dallas	Redfield	R	X	X	X	X		
Dallas	Van Meter	R	X	X	X	X		
Dallas	Waukee	U	X	X	X	X	X	X
Dallas	Wiscotta	R	X	X				
Dallas	Woodward	R	X	X	X	X		
Davis	Bloomfield	U	X	X	X	X		
Davis	Drakesville	R	X	X				
Davis	Floris	R	X	X				
Davis	Mark	R	X	X				
Davis	Pulaski	R	X	X				
Davis	Troy	R	X	X				
Davis	West Grove	R	X	X				
Decatur	Davis City	R	X	X				
Decatur	Decatur City	R			X	X		
Decatur	Garden Grove	R	X	X				
Decatur	Grand River	R	X	X				

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FIFTH ASSESSMENT OF IOWA COMMUNITIES ACCESSING HIGH-SPEED INTERNET TECHNOLOGIES								
County Name	Community Name	Pop. Code	xDSL		Cable-Modem		Wireless/Satellite	
			Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007
Decatur	Lamoni	R	X	X	X	X		
Decatur	Leon	R	X	X	X	X		
Decatur	Pleasanton	R	X	X				
Decatur	Van Wert	R	X	X				
Decatur	Weldon	R	X	X				
Decatur	Woodland	R						
Delaware	Colesburg	R	X	X			X	X
Delaware	Delaware	R	X	X				
Delaware	Delhi	R	X	X				
Delaware	Dundee	R	X	X				
Delaware	Earlville	R	X	X				
Delaware	Edgewood	R	X	X	X	X	X	X
Delaware	Greeley	R	X	X			X	X
Delaware	Hopkinton	R	X	X				
Delaware	Manchester	U	X	X	X	X		
Delaware	Masonville	U	X	X				
Delaware	Oneida	U						
Delaware	Robinson	R	X	X				
Delaware	Ryan	R	X	X				
Delaware	Sand Springs	U	X	X				
Delaware	Thorpe	U	X	X				
Delaware	Petersburg	R	X	X				
Des Moines	Burlington	U	X	X	X	X	X	X
Des Moines	Danville	R	X	X	X	X	X	X
Des Moines	Dodgeville	R	X	X				
Des Moines	Huron	R	X	X				
Des Moines	Kingston	R	X	X				
Des Moines	Kossuth	R	X	X				
Des Moines	Mediapolis	R	X	X				
Des Moines	Middletown	U	X	X	X	X		
Des Moines	Sperry	R	X	X				
Des Moines	West Burlington	U	X	X	X	X	X	X

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Dickinson	Arnolds Park	R	X	X	X	X	X	X
Dickinson	Lake Park	R	X	X	X	X	X	X
Dickinson	Milford	R	X	X	X	X	X	X
Dickinson	Montgomery	U					X	X
Dickinson	Okoboji	R			X	X	X	X
Dickinson	Orleans	U			X	X	X	X
Dickinson	Spirit Lake	U	X	X	X	X	X	X
Dickinson	Superior	R	X	X			X	X
Dickinson	Terril	R	X	X			X	X
Dickinson	Triboji Beach	U					X	X
Dickinson	Wahpeton	R			X	X	X	X
Dickinson	West Okoboji	R			X	X	X	X
Dubuque	Asbury	R	X	X	X	X		
Dubuque	Bankston	R	X	X				
Dubuque	Bernard	R	X	X			X	X
Dubuque	Center Grove	U						
Dubuque	Centralia	U						
Dubuque	Dubuque	U	X	X	X	X	X	X
Dubuque	Durango	U					X	X
Dubuque	Epworth	R	X	X	X	X		
Dubuque	Farley	R	X	X	X	X		
Dubuque	Holy Cross	R	X	X			X	X
Dubuque	Keywest	U						
Dubuque	Luxemburg	R	X	X				
Dubuque	New Vienna	R	X	X				
Dubuque	Peosta	U	X	X	X	X	X	X
Dubuque	Peru	R	X	X				
Dubuque	Sageville	U			X	X		
Dubuque	Sherrill	U		X				
Dubuque	Worthington	R	X	X				
Dubuque/Delaware(63)	Dyersville	U	X	X	X	X		
Dubuque/Jackson(10)	Zwingle	U					X	X

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Dubuque/Jones	Cascade	R	X	X			X	X
Emmet	Armstrong	R	X	X			X	X
Emmet	Dolliver	R	X	X			X	X
Emmet	Estherville	U	X	X	X	X	X	X
Emmet	Gruver	U					X	X
Emmet	Maple Hill	U						
Emmet	Ringsted	R	X	X			X	X
Emmet	Wallingford	R	X	X			X	X
Fayette	Alpha	R	X	X				
Fayette	Arlington	R	X	X			X	X
Fayette	Clermont	R	X	X			X	X
Fayette	Donnan	R	X	X				
Fayette	Eldorado	R						
Fayette	Elgin	R	X	X	X	X	X	X
Fayette	Fayette	R	X	X	X	X	X	X
Fayette	Hawkeye	R	X	X			X	X
Fayette	Maynard	R	X	X	X	X	X	X
Fayette	Oelwein	U	X	X	X	X	X	X
Fayette	Oran	R	X	X			X	X
Fayette	Randalia	R	X	X			X	X
Fayette	Saint Lucas	R	X	X			X	X
Fayette	Wadena	R	X	X			X	X
Fayette	Waucoma	R	X	X			X	X
Fayette	West Union	R	X	X	X	X	X	X
Fayette	Westgate	R	X	X			X	X
Floyd	Aureola	R	X	X				
Floyd	Charles City	U	X	X	X	X	X	X
Floyd	Colwell	U					X	X
Floyd	Floyd	R	X	X	X	X	X	X
Floyd	Jerico	U	X	X				
Floyd	Marble Rock	R	X	X	X	X	X	X
Floyd	Nora Springs	R	X	X	X	X	X	X

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Floyd	Rockford	R	X	X	X	X	X	X
Floyd	Rudd	R	X	X	X	X	X	X
Franklin	Alexander	R	X	X			X	X
Franklin	Chapin	R	X	X			X	X
Franklin	Coulter	R	X	X			X	X
Franklin	Faulkner	R						
Franklin	Geneva	U		X			X	X
Franklin	Hampton	U	X	X	X	X	X	X
Franklin	Hansell	U					X	X
Franklin	Latimer	R	X	X			X	X
Franklin	Popejoy	R	X	X			X	X
Franklin	Sheffield	R	X	X	X	X	X	X
Fremont	Bartlett	R	X	X				
Fremont	Farragut	R						
Fremont	Hamburg	R	X	X				
Fremont	Imogene	R	X	X				
Fremont	Percival	R	X	X				
Fremont	Randolph	R	X	X				
Fremont	Riverton	R	X	X				
Fremont	Sidney	R	X	X				
Fremont	Thurman	R	X	X				
Fremont/Mills(99)	Tabor	R	X	X				
Greene	Churdan	R	X	X			X	X
Greene	Cooper	U	X	X				
Greene	Dana	R	X	X				
Greene	Grand Junction	R	X	X			X	X
Greene	Jefferson	U	X	X	X	X	X	X
Greene	Paton	R	X	X				
Greene	Ripley	R	X	X			X	X
Greene	Scranton	R	X	X			X	X
Grundy	Beaman	R	X	X	X	X	X	X
Grundy	Conrad	R	X	X	X	X	X	X

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Grundy	Dike	R		X	X	X	X	X
Grundy	Grundy Center	U	X	X	X	X	X	X
Grundy	Holland	U	X	X			X	X
Grundy	Morrison	U	X	X			X	X
Grundy	Reinbeck	R	X	X	X	X	X	X
Grundy	Stout	R						
Grundy	Wellsburg	R	X	X			X	X
Guthrie	Bagley	R	X	X	X	X	X	X
Guthrie	Bayard	R	X	X			X	X
Guthrie	Casey	R	X	X			X	X
Guthrie	Guthrie Center	R	X	X			X	X
Guthrie	Jamaica	R	X	X	X	X	X	X
Guthrie	Lake Panarama	R					X	X
Guthrie	Menlo	R	X	X			X	X
Guthrie	Panora	R	X	X			X	X
Guthrie	Yale	R			X	X	X	X
Guthrie/Adair(530)	Stuart	R	X	X	X	X		
Hamilton	Blairsburg	R		X			X	X
Hamilton	Ellsworth	R	X	X			X	X
Hamilton	Jewell	R	X	X	X	X	X	X
Hamilton	Kamrar	R	X	X			X	X
Hamilton	Randall	R	X	X	X	X		
Hamilton	Stanhope	R	X	X			X	X
Hamilton	Stratford	R	X	X			X	X
Hamilton	Webster City	U	X	X	X	X	X	X
Hamilton	Williams	R		X			X	X
Hancock	Britt	R		X	X	X	X	X
Hancock	Corwith	R	X	X			X	X
Hancock	Crystal Lake	R	X	X			X	X
Hancock	Duncan	R			X	X		
Hancock	Garner	U	X	X	X	X	X	X
Hancock	Goodell	R	X	X			X	X

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Hancock	Hayfield	U						
Hancock	Hutchins	R						
Hancock	Kanawha	R	X	X			X	X
Hancock	Klemme	R	X	X			X	X
Hancock	Miller	R						
Hancock	Woden	R	X	X			X	X
Hardin	Alden	R	X	X			X	X
Hardin	Buckeye	R	X	X			X	X
Hardin	Cleves	R						
Hardin	Eldora	U			X	X		
Hardin	Garden City	R	X	X				
Hardin	Gifford	U	X	X				
Hardin	Hubbard	R	X	X			X	X
Hardin	Iowa Falls	U	X	X	X	X	X	X
Hardin	Lawn Hill	R	X	X				
Hardin	New Providence	R	X	X				
Hardin	Owasa	U						
Hardin	Radcliffe	R	X	X			X	X
Hardin	Steamboat Rock	R	X	X			X	X
Hardin	Union	R	X	X				
Hardin	Whitten	R	X	X				
Hardin/Franklin(61)	Ackley	R	X	X	X	X	X	X
Harrison	Dunlap	R	X	X			X	X
Harrison	Little Sioux	R	X	X			X	X
Harrison	Logan	R	X	X			X	X
Harrison	Magnolia	R	X	X			X	X
Harrison	Missouri Valley	U	X	X			X	X
Harrison	Modale	R	X	X			X	X
Harrison	Mondamin	R	X	X			X	X
Harrison	Persia	R	X	X			X	X
Harrison	Pisgah	R	X	X			X	X
Harrison	Woodbine	R	X	X			X	X

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Henry	Hillsboro	R	X	X			X	X
Henry	Lowell	R	X	X			X	X
Henry	Mount Pleasant	U	X	X	X	X	X	X
Henry	Mount Union	R	X	X			X	X
Henry	New London	R	X	X	X	X	X	X
Henry	Olds	R	X	X			X	X
Henry	Rome	U	X	X				
Henry	Salem	R	X	X			X	X
Henry	Swedesburg	R						
Henry	Trenton	R	X	X				
Henry	Wayland	R	X	X			X	X
Henry	Westwood	U	X	X	X	X		
Henry	Winfield	R	X	X			X	X
Henry	Yarmouth	R					X	X
Henry/Washington(12)/Jefferson(5)	Coppock	R	X	X				
Howard	Chester	R	X	X				
Howard	Cresco	U	X	X	X	X	X	X
Howard	Elma	R	X	X	X	X		
Howard	Florenceville	R	X	X				
Howard	Kendallville	R	X	X				
Howard	Lime Spring	R	X	X	X	X	X	X
Howard	Lourdes	R	X	X				
Howard	Protivin	R	X	X				
Howard	Schley	R	X	X				
Howard	Vernon Springs	R	X	X				
Humboldt	Bode	R					X	X
Humboldt	Bradgate	R		X			X	X
Humboldt	Dakota City	U			X	X	X	X
Humboldt	Hardy	R					X	X
Humboldt	Humboldt	U	X	X	X	X	X	X
Humboldt	Irvington	R					X	X
Humboldt	Livermore	R		X			X	X

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Humboldt	Ottosen	R					X	X
Humboldt	Pioneer	R					X	X
Humboldt	Renwick	R		X			X	X
Humboldt	Rutland	U					X	X
Humboldt	Thor	R	X	X			X	X
Humboldt/Pocahontas(222)	Gilmore City	R	X	X			X	X
Ida	Arthur	R	X	X			X	X
Ida	Battle Creek	R	X	X			X	X
Ida	Galva	R	X	X			X	X
Ida	Holstein	R	X	X			X	X
Ida	Ida Grove	R	X	X			X	X
Iowa	Amana	R	X	X	X	X		
Iowa	Conroy	R	X	X				
Iowa	Genoa Bluff	U	X	X				
Iowa	High Amana	R	X	X				
Iowa	Homestead	R	X	X	X	X		
Iowa	Koszta	R						
Iowa	Ladora	R	X	X				
Iowa	Marengo	U	X	X	X	X		
Iowa	Middle Amana	R	X	X	X	X		
Iowa	Millersburg	R	X	X				
Iowa	Parnell	U	X	X				
Iowa	South Amana	R	X	X	X	X		
Iowa	West Amana	R	X	X				
Iowa	Williamsburg	U	X	X	X	X	X	X
Iowa/Keokuk(11)	North English	R	X	X	X	X		
Iowa/Poweshiek(127)	Victor	R	X	X				
Jackson	Andrew	R	X	X				
Jackson	Baldwin	R	X	X			X	X
Jackson	Bellevue	R	X	X			X	X
Jackson	Canton	U		X				
Jackson	Emeline	U						

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Jackson	Fulton	U						
Jackson	Hurstville	U						
Jackson	La Motte	R	X	X			X	X
Jackson	Maquoketa	U	X	X	X	X	X	X
Jackson	Miles	R	X	X	X	X		
Jackson	Monmouth	R	X	X			X	X
Jackson	Nashville	R						
Jackson	Otter Creek	R	X	X				
Jackson	Preston	R	X	X	X	X		
Jackson	Sabula	R	X	X	X	X	X	X
Jackson	Saint Donatus	U	X	X				
Jackson	Spragueville	R	X	X			X	X
Jackson	Springbrook	R	X	X			X	X
Jasper	Baxter	R	X	X			X	X
Jasper	Colfax	R	X	X	X	X	X	X
Jasper	Galesburg	R	X	X				
Jasper	Ira	R						
Jasper	Kellogg	R	X	X			X	X
Jasper	Killduff	R	X	X				
Jasper	Lamb's Grove	U	X	X	X	X		
Jasper	Lynnville	R	X	X	X	X		
Jasper	Mingo	R	X	X				
Jasper	Monroe	R	X	X	X	X	X	X
Jasper	Newburg	U	X	X				
Jasper	Newton	U	X	X	X	X	X	X
Jasper	Oakland Acres	U	X	X				
Jasper	Prairie City	R		X	X	X	X	X
Jasper	Reasnor	R	X	X				
Jasper	Sully	R	X	X	X	X		
Jasper	Valeria	R						
Jefferson	Abingdon	R						
Jefferson	Beckwith	U	X	X				

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Jefferson	Batavia	R	X	X				
Jefferson	Fairfield	U	X	X	X	X	X	X
Jefferson	Four Corners	R	X	X				
Jefferson	Germanville	R	X	X				
Jefferson	Libertyville	R	X	X				
Jefferson	Limby	R	X	X				
Jefferson	Lockridge	R	X	X			X	X
Jefferson	Packwood	R	X	X				
Jefferson	Perlee	U	X	X				
Jefferson	Pleasant Plain	R	X	X				
Johnson	Carl	R						
Johnson	Coralville	U	X	X	X	X		
Johnson	Cosgrove	R	X	X				
Johnson	Frytown	R	X	X				
Johnson	Hills	R	X	X	X	X		
Johnson	Iowa City	U	X	X				
Johnson	Lone Tree	R	X	X	X	X	X	X
Johnson	North Liberty	U	X	X	X	X		
Johnson	Oasis	R	X	X				
Johnson	Oxford	R	X	X	X	X		
Johnson	River Junction	R	X	X				
Johnson	Shueyville	R	X	X	X	X		
Johnson	Solon	R	X	X	X	X		
Johnson	Swisher	R	X	X	X	X		
Johnson	Tiffin	R	X	X	X	X		
Johnson	University Heights	U			X	X		
Johnson	Windham	R	X	X				
Jones	Amber	U						
Jones	Anamosa	U	X	X	X	X	X	X
Jones	Center Junction	R	X	X			X	X
Jones	Fairview	U						
Jones	Hale	R	X	X				

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Jones	Langworthy	U						
Jones	Martelle	R	X	X				
Jones	Monticello	U	X	X	X	X		
Jones	Morley	R	X	X				
Jones	Olin	R	X	X				
Jones	Onslow	R	X	X	X	X	X	X
Jones	Oxford Junction	R	X	X	X	X		
Jones	Oxford Mills	R	X	X				
Jones	Scotch Grove	U	X	X				
Jones	Wyoming	R	X	X	X	X		
Keokuk	Coal Creek	R	X	X				
Keokuk	Delta	R	X	X				
Keokuk	Gibson	R	X	X				
Keokuk	Harper	R	X	X				
Keokuk	Hayesville	R	X	X				
Keokuk	Hedrick	R	X	X				
Keokuk	Keota	R	X	X	X	X		
Keokuk	Keswick	R	X	X	X	X		
Keokuk	Kinross	R	X	X				
Keokuk	Lancaster	R	X	X				
Keokuk	Martinsburg	R	X	X				
Keokuk	Ollie	R	X	X				
Keokuk	Pekin	R	X	X				
Keokuk	Richland	R	X	X			X	X
Keokuk	Sigourney	R	X	X	X	X		
Keokuk	South English	R	X	X				
Keokuk	Tallyrand	R	X	X				
Keokuk	Thornburg	R	X	X				
Keokuk	Webster	R	X	X				
Keokuk	What Cheer	R	X	X	X	X		
Kossuth	Algona	U	X	X	X	X	X	X
Kossuth	Bancroft	R	X	X	X	X	X	X

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Kossuth	Burt	R	X	X	X	X	X	X
Kossuth	Fenton	R	X	X			X	X
Kossuth	Lakota	R	X	X			X	X
Kossuth	Ledyard	R	X	X			X	X
Kossuth	Lone Rock	R	X	X			X	X
Kossuth	Lotts Creek	R	X	X				
Kossuth	Saint Benedict	R						
Kossuth	Saint Joseph	R					X	X
Kossuth	Stevens	R	X	X				
Kossuth	Swea City	R	X	X	X	X	X	X
Kossuth	Titonka	R	X	X			X	X
Kossuth	Wesley	R		X			X	X
Kossuth	Whittemore	R	X	X	X	X	X	X
Kossuth/Humboldt(54)	LuVerne	R		X			X	X
Lee	Argyle	R	X	X			X	X
Lee	Croton	R	X	X				
Lee	Denmark	R	X	X				
Lee	Donnellson	R	X	X			X	X
Lee	Fort Madison	U	X	X	X	X	X	X
Lee	Franklin	R	X	X				
Lee	Galland	R	X	X				
Lee	Houghton	R	X	X				
Lee	Keokuk	U	X	X	X	X	X	X
Lee	Montrose	R	X	X	X	X	X	X
Lee	Pilot Grove	R						
Lee	Primrose	R	X	X				
Lee	Saint Paul	R	X	X			X	X
Lee	West Point	R	X	X	X	X	X	X
Lee	Wever	U	X	X			X	X
Linn	Alburnett	R	X	X	X	X		
Linn	Center Point	R	X	X	X	X	X	X
Linn	Central City	R	X	X	X	X		

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**FIFTH ASSESSMENT OF IOWA COMMUNITIES ACCESSING HIGH-SPEED INTERNET TECHNOLOGIES**

County Name	Community Name	Pop. Code	xDSL		Cable-Modem		Wireless/Satellite	
			Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007	Access as of Jan. 2006	Access as of Jan. 2007
Linn	Coggon	R	X	X				
Linn	Ely	R	X	X				
Linn	Fairfax	R	X	X	X	X		
Linn	Hiawatha	U	X	X	X	X	X	X
Linn	Lisbon	R	X	X	X	X	X	X
Linn	Marion	U	X	X	X	X	X	X
Linn	Mount Vernon	U	X	X	X	X	X	X
Linn	Palo	R	X	X	X	X		
Linn	Paris	R						
Linn	Paris (Bunch)	R	X	X				
Linn	Prairieburg	R	X	X				
Linn	Robins	U	X	X	X	X		
Linn	Springville	R	X	X				
Linn	Toddville	U	X	X	X	X		
Linn	Troy Mills	R	X	X				
Linn	Viola	R	X	X				
Linn	Walker	R	X	X			X	X
Linn	Waubeeek	R	X	X				
Linn	Western	R	X	X				
Linn	Whitter	R	X	X				
Louisa	Columbus City	R	X	X	X	X	X	X
Louisa	Columbus Junction	R	X	X	X	X	X	X
Louisa	Cotter	R	X	X			X	X
Louisa	Fredonia	R	X	X	X	X	X	X
Louisa	Gladwin	R	X	X				
Louisa	Grandview	R	X	X			X	X
Louisa	Letts	R	X	X			X	X
Louisa	Morning Sun	R	X	X	X	X		
Louisa	Oakville	R	X	X			X	X
Louisa	Wapello	R	X	X	X	X	X	X
Louisa	Wyman	R	X	X			X	X
Lucas	Chariton	U	X	X	X	X	X	X

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Lucas	Derby	R	X	X			X	X
Lucas	Lucas	R	X	X	X	X	X	X
Lucas	Norwood	R	X	X				
Lucas	Oakley	R						
Lucas	Russell	R	X	X			X	X
Lucas	Williamson	R	X	X				
Lyon	Alvord	R	X	X			X	X
Lyon	Doon	R	X	X	X	X	X	X
Lyon	George	R	X	X	X	X	X	X
Lyon	Inwood	R	X	X			X	X
Lyon	Larchwood	R	X	X			X	X
Lyon	Lester	R	X	X			X	X
Lyon	Little Rock	R	X	X			X	X
Lyon	Rock Rapids	U	X	X			X	X
Madison	Earlham	R	X	X	X	X	X	X
Madison	Macksburg	R	X	X				
Madison	Patterson	U						
Madison	Saint Charles	R	X	X				
Madison	Truro	R	X	X			X	X
Madison	Winterset	U	X	X	X	X	X	X
Madison/Warren(22)	Bevington	U						
Mahaska	Barnes City	R			X	X		
Mahaska	Beacon	U	X	X	X	X		
Mahaska	Cedar	R						
Mahaska	Fremont	R	X	X				
Mahaska	Indianapolis	R	X	X				
Mahaska	Keomah Village	U						
Mahaska	Lacey	R						
Mahaska	Leighton	R	X	X				
Mahaska	New Sharon	R	X	X	X	X	X	X
Mahaska	Oskaloosa	U	X	X	X	X	X	X
Mahaska	Peoria	R	X	X				

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Mahaska	Rose Hill	R						
Mahaska	Taintor	R	X	X				
Mahaska	Union Mills	R	X	X				
Mahaska	University Park	U	X	X	X	X		
Marion	Attica	R	X	X				
Marion	Bussey	R	X	X	X	X	X	X
Marion	Columbia	R						
Marion	Dallas	R	X	X	X	X		
Marion	Hamilton	R	X	X	X	X		
Marion	Hancock	R	X	X				
Marion	Harvey	U	X	X				
Marion	Knoxville	U	X	X	X	X	X	X
Marion	Marysville	R	X	X				
Marion	Melcher	R	X	X	X	X		
Marion	Otley	R	X	X			X	X
Marion	Park Hills	R	X	X				
Marion	Pella	U	X	X	X	X	X	X
Marion	Pershing	R	X	X				
Marion	Pleasantville	R	X	X	X	X	X	X
Marion	Swan	R	X	X			X	X
Marion	Tracy	R	X	X	X	X	X	X
Marshall	Albion	R	X	X				
Marshall	Clemons	R	X	X				
Marshall	Ferguson	R	X	X				
Marshall	Gilman	R	X	X				
Marshall	Green Mountain	R	X	X	X	X		
Marshall	Haverhill	R	X	X				
Marshall	Laurel	R	X	X				
Marshall	LeGrand	R	X	X	X	X	X	X
Marshall	Liscomb	R	X	X				
Marshall	Marshalltown	U	X	X	X	X	X	X
Marshall	Melbourne	R	X	X			X	X

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Marshall	Rhodes	R	X	X				
Marshall	Saint Anthony	R	X	X				
Marshall	State Center	R	X	X	X	X		
Marshall	Van Cleve	R	X	X				
Mills	Emerson	R	X	X				
Mills	Glenwood	U	X	X	X	X		
Mills	Hastings	R						
Mills	Henderson	R	X	X				
Mills	Malvern	R		X				
Mills	Mineola	U	X	X				
Mills	Pacific Junction	R						
Mills	Silver City	U	X	X				
Mitchell	Carpenter	R	X	X				
Mitchell	LeRoy, MN (Bailey, IA)	R	X	X				
Mitchell	Little Cedar	R					X	X
Mitchell	McIntire	R	X	X	X	X		
Mitchell	Meyer	R						
Mitchell	Mitchell	U						
Mitchell	New Haven	R					X	X
Mitchell	Orchard	U						
Mitchell	Osage	U	X	X	X	X	X	X
Mitchell	Otranto	R	X	X				
Mitchell	Saint Ansgar	R	X	X	X	X	X	X
Mitchell	Stacyville	R	X	X	X	X	X	X
Mitchell	Toeterville	R						
Mitchell/Howard(326)	Riceville	R	X	X	X	X	X	X
Monona	Blencoe	R	X	X			X	X
Monona	Castana	R	X	X			X	X
Monona	Mapleton	R	X	X			X	X
Monona	Moorhead	R	X	X			X	X
Monona	Onawa	U	X	X			X	X
Monona	Rodney	R					X	X

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Monona	Soldier	R	X	X			X	X
Monona	Turin	R	X	X				
Monona	Ute	R	X	X			X	X
Monona	Whiting	R	X	X			X	X
Monroe	Albia	U	X	X	X	X	X	X
Monroe	Avery	U	X	X				
Monroe	Georgetown	U	X	X				
Monroe	Hiteman	R	X	X				
Monroe	Lovilia	R	X	X	X	X	X	X
Monroe	Melrose	R	X	X			X	X
Monroe	Weller	R	X	X				
Montgomery	Elliot	R	X	X				
Montgomery	Grant	R	X	X				
Montgomery	Red Oak	U	X	X	X	X		
Montgomery	Stanton	R	X	X				
Montgomery	Villisca	R	X	X	X	X		
Muscatine	Atalissa	R	X	X	X	X		
Muscatine	Conesville	R	X	X				
Muscatine	Cranston	R	X	X				
Muscatine	Fruitland	U			X	X		
Muscatine	Montpelier	U						
Muscatine	Moscow	R	X	X			X	X
Muscatine	Muscatine	U	X	X	X	X	X	X
Muscatine	Nichols	R	X	X				
Muscatine	Stockton	U	X	X	X	X	X	X
Muscatine	West Liberty	U	X	X	X	X		
Muscatine	Wilton	U	X	X	X	X	X	X
O'Brien	Archer	R	X	X			X	X
O'Brien	Calumet	R	X	X			X	X
O'Brien	Gaza	R	X	X			X	X
O'Brien	Germantown	R	X	X			X	X
O'Brien	Hartley	R	X	X	X	X	X	X

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O'Brien	Moneta	R	X	X			X	X
O'Brien	Paullina	R	X	X	X	X	X	X
O'Brien	Primghar	R	X	X	X	X	X	X
O'Brien	Sanborn	R	X	X	X	X	X	X
O'Brien	Sutherland	R	X	X			X	X
O'Brien/Sioux(97)	Sheldon	U	X	X	X	X	X	X
Osceola	Allendorf	U					X	X
Osceola	Ashton	R	X	X	X	X	X	X
Osceola	Cloverdale	U					X	X
Osceola	Harris	R	X	X	X	X	X	X
Osceola	May City	R	X	X			X	X
Osceola	Melvin	R	X	X			X	X
Osceola	Ocheyedan	R	X	X			X	X
Osceola	Sibley	R	X	X	X	X	X	X
Page	Blanchard	R	X	X				
Page	Braddyville	R	X	X				
Page	Clarinda	U	X	X	X	X		
Page	Coin	R	X	X				
Page	College Springs	R	X	X				
Page	Essex	R	X	X	X	X		
Page	Hepburn	U	X	X				
Page	Northboro	R	X	X				
Page	Shambaugh	R	X	X				
Page	Shenandoah	U	X	X	X	X		
Page	Yorktown	U	X	X				
Palo Alto	Ayrshire	R	X	X			X	X
Palo Alto	Curlew	R	X	X			X	X
Palo Alto	Cylinder	R	X	X			X	X
Palo Alto	Emmetsburg	U	X	X	X	X	X	X
Palo Alto	Graettinger	R	X	X			X	X
Palo Alto	Mallard	R	X	X			X	X
Palo Alto	Osgood	U	X	X				

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Palo Alto	Rodman	R					X	X
Palo Alto	Ruthven	R	X	X			X	X
Palo Alto	West Bend	R	X	X			X	X
Plymouth	Akron	R	X	X	X	X	X	X
Plymouth	Brunsville	R	X	X			X	X
Plymouth	Craig	R	X	X			X	X
Plymouth	Hinton	R	X	X			X	X
Plymouth	James	U					X	X
Plymouth	Kingsley	R	X	X			X	X
Plymouth	LeMars	U	X	X	X	X	X	X
Plymouth	Merrill	R		X	X	X	X	X
Plymouth	Oyens	U	X	X	X	X	X	X
Plymouth	Remsen	R	X	X	X	X	X	X
Plymouth	Struble	R	X	X			X	X
Plymouth	Westfield	R					X	X
Pocahontas	Fonda	R	X	X			X	X
Pocahontas	Havelock	R	X	X			X	X
Pocahontas	Laurens	R		X	X	X	X	X
Pocahontas	Palmer	R	X	X			X	X
Pocahontas	Plover	R	X	X			X	X
Pocahontas	Pocahontas	R	X	X	X	X	X	X
Pocahontas	Rolfe	R	X	X			X	X
Pocahontas	Varina	R	X	X			X	X
Pocahontas	Ware	R					X	X
Polk	Alleman	R	X	X			X	X
Polk	Altoona	U	X	X	X	X	X	X
Polk	Ankeny	U	X	X	X	X		
Polk	Avon	U					X	X
Polk	Berwick	R	X	X	X	X		
Polk	Bondurant	U	X	X	X	X	X	X
Polk	Des Moines	U	X	X	X	X		
Polk	Elkhart	R	X	X				

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Polk	Enterprise	R						
Polk	Farrar	R	X	X				
Polk	Grimes	U	X	X	X	X	X	X
Polk	Johnston	U	X	X	X	X	X	X
Polk	Mitchellville	U			X	X	X	X
Polk	Pleasant Hill	U	X	X	X	X		
Polk	Polk City	R	X	X	X	X		
Polk	Rising Sun	U						
Polk	Runnells	R		X	X	X		
Polk	Saylorville	U						
Polk	White Oak	R	X	X				
Polk	Windsor Heights	U	X	X	X	X		
Polk/Dallas(107)	Urbandale	U	X	X	X	X	X	X
Polk/Dallas(44)	Clive	U	X	X	X	X	X	X
Polk/Dallas(523)	West Des Moines	U	X	X	X	X	X	X
Pottawattamie	Avoca	R	X	X	X	X	X	X
Pottawattamie	Carson	R	X	X			X	X
Pottawattamie	Carter Lake	U	X	X	X	X	X	X
Pottawattamie	Council Bluffs	U	X	X	X	X	X	X
Pottawattamie	Crescent	R	X	X	X	X	X	X
Pottawattamie	Honey Creek	R						
Pottawattamie	Macedonia	R					X	X
Pottawattamie	Manawa	U	X	X				
Pottawattamie	McClelland	R	X	X			X	X
Pottawattamie	Minden	R	X	X			X	X
Pottawattamie	Neola	R	X	X			X	X
Pottawattamie	Oakland	R	X	X			X	X
Pottawattamie	Treynor	R	X	X			X	X
Pottawattamie	Underwood	R	X	X			X	X
Pottawattamie	Walnut	R	X	X			X	X
Poweshiek	Brooklyn	R	X	X	X	X		
Poweshiek	Deep River	R			X	X		

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Poweshiek	Ewart	R	X	X				
Poweshiek	Grinnell	U	X	X	X	X	X	X
Poweshiek	Guernsey	R	X	X				
Poweshiek	Hartwick	R	X	X				
Poweshiek	Malcom	R	X	X			X	X
Poweshiek	Montezuma	R	X	X				
Poweshiek	Searsboro	R	X	X				
Ringgold	Beaconsfield	R	X	X				
Ringgold	Benton	R	X	X				
Ringgold	Delphos	R	X	X				
Ringgold	Diagonal	R	X	X				
Ringgold	Ellston	R	X	X				
Ringgold	Kellerton	R	X	X	X	X		
Ringgold	Maloy	R	X	X				
Ringgold	Mount Ayr	R	X	X	X	X		
Ringgold	Redding	R	X	X				
Ringgold	Tingley	R	X	X				
Sac	Auburn	R	X	X			X	X
Sac	Carnarvon	R						
Sac	Early	R	X	X			X	X
Sac	Grant City	R	X	X			X	X
Sac	Lake View	R	X	X			X	X
Sac	Nemaha	R	X	X			X	X
Sac	Odebolt	R	X	X			X	X
Sac	Sac City	R	X	X	X	X	X	X
Sac	Schaller	R	X	X			X	X
Sac	Wall Lake	R	X	X			X	X
Sac/Calhoun(39)	Lytton	R	X	X			X	X
Scott	Bettendorf	U	X	X	X	X	X	X
Scott	Big Rock	R	X	X				
Scott	Blue Grass	U	X	X	X	X	X	X
Scott	Buffalo	U	X	X	X	X		

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Scott	Davenport	U	X	X	X	X	X	X
Scott	Dixon	R			X	X		
Scott	Donahue	R	X	X	X	X		
Scott	Eldridge	U	X	X	X	X		
Scott	LeClaire	U	X	X	X	X		
Scott	Long Grove	U			X	X	X	X
Scott	Maysville	U						
Scott	McCausland	R	X	X	X	X		
Scott	Mount Joy	U	X	X	X	X		
Scott	New Liberty	U			X	X	X	X
Scott	Panorama Park	U			X	X		
Scott	Parkview	R			X	X		
Scott	Plainview	R						
Scott	Pleasant Valley	U	X	X	X	X		
Scott	Princeton	U	X	X	X	X		
Scott	Riverdale	U						
Scott	Walcott	R	X	X	X	X		
Shelby	Botna	R	X	X				
Shelby	Defiance	R	X	X			X	X
Shelby	Earling	R	X	X			X	X
Shelby	Elk Horn	R	X	X			X	X
Shelby	Harlan	U	X	X	X	X	X	X
Shelby	Irwin	R	X	X			X	X
Shelby	Jacksonville	R	X	X				
Shelby	Kirkman	R	X	X			X	X
Shelby	Panama	R	X	X	X	X	X	X
Shelby	Portsmouth	R	X	X			X	X
Shelby	Tennant	R	X	X				
Shelby	Westphalia	R	X	X			X	X
Shelby/Pottawattamie (69)	Shelby	R	X	X			X	X
Sioux	Alton	R	X	X	X	X	X	X
Sioux	Boyarden	R	X	X	X	X	X	X

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Sioux	Carmel	U					X	X
Sioux	Chatsworth	R					X	X
Sioux	East Hudson	R	X	X			X	X
Sioux	Granville	R	X	X				X
Sioux	Hawarden	R	X	X	X	X	X	X
Sioux	Hospers	R	X	X			X	X
Sioux	Hull	R	X	X	X	X	X	X
Sioux	Ireton	R	X	X	X	X	X	X
Sioux	Matlock	R	X	X			X	X
Sioux	Maurice	R	X	X	X	X	X	X
Sioux	Middleburg	U					X	X
Sioux	Newkirk	R					X	X
Sioux	Orange City	U	X	X	X	X	X	X
Sioux	Perkins	R					X	X
Sioux	Rock Valley	U	X	X	X	X	X	X
Sioux	Sioux Center	U	X	X	X	X	X	X
State of Minnesota	Bricelyn, MN	R	X	X				
State of Minnesota	Hesper (S. Mabel)	R	X	X				
State of Minnesota	Hills, MN	R	X	X				
State of Minnesota	Lyle, MN (Mona, IA)	R	X	X				
State of Minnesota	South Seen (MN)	R	X	X				
State of South Dakota	South Valley Springs	R	X	X				
Story	Ames	U	X	X			X	X
Story	Cambridge	R	X	X			X	X
Story	Collins	R	X	X			X	X
Story	Colo	R	X	X			X	X
Story	Fernald	U	X	X				
Story	Gilbert	U			X	X	X	X
Story	Huxley	R	X	X	X	X	X	X
Story	Iowa Center	R	X	X				
Story	Kelley	R	X	X				
Story	Maxwell	R	X	X			X	X

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Story	McCallsburg	R	X	X				
Story	Nevada	U	X	X	X	X	X	X
Story	Roland	R	X	X	X	X	X	X
Story	Shipley	U						
Story	Slater	R	X	X	X	X	X	X
Story	Story City	U	X	X	X	X	X	X
Story	Zearing	R	X	X				
Story/Polk/Boone	Sheldahl	R	X	X	X	X		
Tama	Buckingham	R						
Tama	Chelsea	R	X	X				
Tama	Clutier	R	X	X			X	X
Tama	Dinsdale	R	X	X				
Tama	Dysart	R	X	X	X	X	X	X
Tama	Elberon	R	X	X				
Tama	Garwin	R	X	X	X	X	X	X
Tama	Gladbrook	R	X	X	X	X	X	X
Tama	Haven	R						
Tama	Irving	R						
Tama	Lincoln	R	X	X				
Tama	Montour	R	X	X			X	X
Tama	Tama	U	X	X	X	X	X	X
Tama	Toledo	U	X	X	X	X	X	X
Tama	Traer	R	X	X	X	X		
Tama	Vining	R	X	X				
Taylor	Athelstan	R	X	X				
Taylor	Bedford	R	X	X	X	X		
Taylor	Blockton	R	X	X				
Taylor	Conway	R	X	X				
Taylor	Gravity	R	X	X				
Taylor	Guss	R						
Taylor	Lenox	R	X	X			X	X
Taylor	New Market	R	X	X				

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Taylor	Sharpsburg	R	X	X				
Taylor/Ringgold(9)	Clearfield	R	X	X				
Union	Afton	R	X	X			X	X
Union	Arispe	R	X	X				
Union	Creston	U	X	X	X	X	X	X
Union	Cromwell	U	X	X				
Union	Kent	R	X	X				
Union	Lorimor	R	X	X				
Union	Shannon City	R	X	X				
Union	Thayer	R	X	X				
Van Buren	Bentonsport	R	X	X				
Van Buren	Birmingham	R	X	X				
Van Buren	Bonaparte	R	X	X				
Van Buren	Cantril	R	X	X				
Van Buren	Douds	R	X	X				
Van Buren	Farmington	R	X	X				
Van Buren	Keosauqua	R	X	X				
Van Buren	Leando	R	X	X				
Van Buren	Milton	R	X	X				
Van Buren	Mount Sterling	R	X	X				
Van Buren	Selma	R						
Van Buren	Stockport	R	X	X				
Wapello	Agency	R	X	X	X	X		
Wapello	Bladensburg	R	X	X				
Wapello	Blakesburg	R	X	X				
Wapello	Chillicothe	R	X	X				
Wapello	Eldon	R	X	X	X	X		
Wapello	Farson	R	X	X				
Wapello	Kirkville	R	X	X				
Wapello	Ottumwa	U	X	X	X	X		
Wapello	Toolesboro	R	X	X				
Wapello/Mahaska(201)/Monroe(2)	Eddyville	R	X	X	X	X	X	X

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Warren	Ackworth	U			X	X		
Warren	Beech	R	X	X				
Warren	Churchville	U						
Warren	Cumming	U	X	X	X	X		
Warren	Hartford	U	X	X	X	X		
Warren	Indianola	U	X	X	X	X	X	X
Warren	Lacona	R	X	X			X	X
Warren	Lakewood	U						
Warren	Liberty Center	R	X	X				
Warren	Martensdale	R	X	X				
Warren	Milo	R	X	X				
Warren	New Virginia	R	X	X				
Warren	Norwalk	U	X	X	X	X		
Warren	Palmyra	U						
Warren	Prole	U	X	X				
Warren	Saint Marys	R	X	X				
Warren	Sandyville	U						
Warren	Spring Hill	U						
Warren/Polk(168)	Carlisle	U	X	X	X	X		
Washington	Ainsworth	R	X	X				
Washington	Brighton	R	X	X			X	X
Washington	Crawfordsville	R	X	X			X	X
Washington	Daytonville	R	X	X				
Washington	Haskins	R	X	X				
Washington	JoeTown	R	X	X				
Washington	Kalona	R	X	X	X	X		
Washington	Riverside	R	X	X	X	X		
Washington	Rubio	R	X	X				
Washington	Washington	U	X	X	X	X		
Washington	Wellman	R	X	X	X	X		
Washington	West Chester	R	X	X				
Wayne	Allerton	R	X	X			X	X

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Wayne	Bethlehem	R						
Wayne	Cambria	R	X	X				
Wayne	Clio	R					X	X
Wayne	Corydon	R	X	X	X	X	X	X
Wayne	Humeston	R	X	X			X	X
Wayne	Lineville	R	X	X			X	X
Wayne	Millerton	R	X	X			X	X
Wayne	Promise City	R	X	X			X	X
Wayne	Seymour	R	X	X			X	X
Webster	Badger	R	X	X			X	X
Webster	Barnum	R	X	X	X	X	X	X
Webster	Callender	R	X	X			X	X
Webster	Clare	R	X	X	X	X	X	X
Webster	Coalville	R	X	X			X	X
Webster	Dayton	R	X	X				
Webster	Duncombe	R	X	X			X	X
Webster	Fort Dodge	U	X	X	X	X	X	X
Webster	Gowrie	R	X	X			X	X
Webster	Harcourt	R	X	X				
Webster	Lanyon	R	X	X				
Webster	Lehigh	R	X	X			X	X
Webster	Moorland	R	X	X	X	X	X	X
Webster	Otho	R	X	X	X	X	X	X
Webster	Vincent	R	X	X			X	X
Winnebago	Buffalo Center	R	X	X	X	X	X	X
Winnebago	Lake Mills	R	X	X				
Winnebago	Leland	R	X	X	X	X		
Winnebago	Rake	R	X	X				
Winnebago	Scarville	R	X	X				
Winnebago	Thompson	R	X	X				
Winnebago/Hancock(421)	Forest City	U	X	X	X	X	X	X
Winneshiek	Burr Oak	R	X	X				

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Winneshiek	Calmar	R	X	X	X	X	X	X
Winneshiek	Castalia	R	X	X			X	X
Winneshiek	Decorah	U	X	X	X	X	X	X
Winneshiek	Fort Atkinson	R	X	X	X	X	X	X
Winneshiek	Frankville	R						
Winneshiek	Highlandville	R	X	X				
Winneshiek	Jackson Junction	R	X	X			X	X
Winneshiek	Ossian	R	X	X	X	X	X	X
Winneshiek	Ridgeway	R	X	X			X	X
Winneshiek	South Harmony	R	X	X				
Winneshiek	Spillville	R			X	X	X	X
Winneshiek	Freeport	U						
Woodbury	Anthon	R	X	X			X	X
Woodbury	Bronson	R	X	X			X	X
Woodbury	Climbing Hill	R	X	X			X	X
Woodbury	Correctionville	R	X	X			X	X
Woodbury	Cushing	R	X	X			X	X
Woodbury	Danbury	R	X	X			X	X
Woodbury	Hornick	R	X	X			X	X
Woodbury	Lawton	R	X	X			X	X
Woodbury	Luton	R					X	X
Woodbury	Moville	R	X	X			X	X
Woodbury	Oto	R	X	X			X	X
Woodbury	Pierson	R	X	X			X	X
Woodbury	Salix	R	X	X			X	X
Woodbury	Sergeant Bluff	U	X	X			X	X
Woodbury	Sioux City	U	X	X	X	X	X	X
Woodbury	Sloan	R	X	X			X	X
Woodbury	Smithland	R	X	X			X	X
Worth	Fertile	R	X	X			X	X
Worth	Grafton	R	X	X				
Worth	Hanlontown	R	X	X			X	X

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Worth	Joice	R	X	X				
Worth	Kensett	R	X	X	X	X		
Worth	Manly	R		X	X	X		
Worth	Northwood	R	X	X	X	X		
Worth	South Emmons	R	X	X				
Wright	Belmond	U	X	X	X	X	X	X
Wright	Clarion	U	X	X	X	X	X	X
Wright	Cornelia	U						
Wright	Eagle Grove	U	X	X	X	X	X	X
Wright	Galt	U	X	X			X	X
Wright	Goldfield	R	X	X			X	X
Wright	Holmes	U	X	X				
Wright	Rowan	R	X	X			X	X
Wright	Tara	R	X	X				
Wright	Woolstock	R	X	X			X	X
Wright/Franklin(93)	Dows	R	X	X			X	X

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